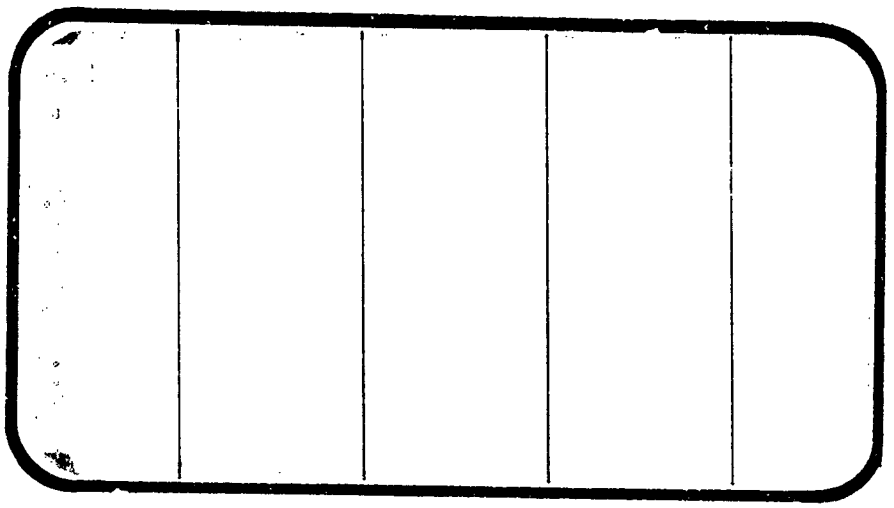
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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(NASA-CR-128794) RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN C.030-SCALE MODEL OF THE SPACE (Chrysler Corp.) 1089 p HC $57.50 CSCL 22B G3/31 N74-26326 Unclas 40431

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION CHRYSLER CORPORATION

April, 1974

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VOLUME 18 OF 18

RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS

By

R. H. Spangler
Rockwell International

Prepared under NASA Contract Number NAS9-13247

By

Data Management Services
Chrysler Corporation Space Division
New Orleans, Louisiana 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WING TUNNEL TEST SPECIFICS:

Test Numbers:	ARC 11-707 (A) ARC 97-707 (B) ARC 87-707 (C)
NASA Series Numbers:	IA9A, B, C and OA12A, C
Test Date:	2 April - 17 May, 1973

FACILITY COORDINATOR:

C. R. Nysmith
Ames Research Center
Mail Stop N-229-5
Moffett Field, California 94035

Phone: (415) 965-5274

PROJECT ENGINEERS:

R. H. Spangler, R. L. Gillins, E. Chee
Rockwell International, Space Division
12214 Lakewood Boulevard
Mail Code AC-07
Downey, California 90241

Phone: (213) 922-1432

J. J. Brownson, R. E. Fahey
Ames Research Center
Mail Stop 227-5
Moffett Field, California 94035

Phone: (415) 965-6262

DATA MANAGEMENT SERVICES:

This document has been prepared by:

for D. A. Sarver, Terry Mulkey
Liaison Operations

D. E. Poucher, H. C. Zimmerle
Data Operations

This document has been reviewed and is approved for release.

for N. D. Kemp
Data Management Services

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RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS

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ABSTRACT

Tests were conducted in the NASA/ARC Unitary Plan Wind Tunnels during April and May 1973, on an 0.030-scale replica of the Space Shuttle Vehicle Configuration 2A. Aerodynamic loads data were obtained at Mach numbers from 0.6 to 3.5.

The investigation included Tests IA9A, B and C on the integrated (launch) configuration and Tests OA12A and C on the isolated orbiter (entry configuration). The integrated vehicle was tested at angles of attack and sideslip from -8 degrees to +8 degrees. The isolated orbiter was tested at angles of attack from -15 degrees to +40 degrees and angles of sideslip from -10 degrees to +10 degrees as dictated by trajectory considerations. The effects of orbiter/external tank incidence angle and deflected control surfaces on aerodynamic loads were also investigated.

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INTRODUCTION

The 0.030-scale Aero Londs Space Shuttle model was tested in the Unitary Plan Wind Tunnels at ARC starting April 2, and continuing through May 17, 1973 as follows:

IA9A	11-foot Transonic	April 2 to April 14, 1973
OA12A	11-foot Transonic	April 16 to April 29, 1973
IA9C	8x7-foot Supersonic	April 23 to May 1, 1973
OA12C	8x7-foot Supersonic	May 2 to May 8, 1973
IA9B	9x7-foot Supersonic	May 9 to May 17, 1973

The testing was conducted in all three legs of the Unitary Plan Wind Tunnels to obtain a Mach number range from 0.6 to 3.5. Aerodynamic loads data were obtained for the ascent and entry configurations. The effects of control surface deflections were also investigated.

This report consists of 3 volumes of force data and 15 volumes of pressure data for a total of 18 volumes arranged in the following manner:

VOLUME NO.	CONTENTS
1	IA9A force data
2	IA9B and IA9C force data
3	OA12A and OA12C force data
4	IA9A plotted pressure data
5	IA9B and IA9C plotted pressure data
6	OA12A and OA12C plotted pressure data
7	IA9A tabulated pressure data (a) orbiter fuselage (b) orbiter base (c) upper MPS nozzle
8	IA9A tabulated pressure data (a) OMS nozzle (b) body flap (c) OMS pod outside (d) lower wing surface
9	IA9A tabulated pressure data (a) upper wing surface (b) left vertical tail surface (c) right vertical tail surface (d) APU inlet (e) SRM booster base
10	IA9A tabulated pressure data (a) SRM booster (b) external tank (c) external tank base

11 IA9B tabulated pressure data
- (a) orbiter fuselage
- (b) orbiter base
- (c) upper MPS nozzle
- (d) OMS nozzle
- (e) body flap
- (f) OMS pod outside
- (g) lower wing surface

12 IA9B tabulated pressure data
- (a) upper wing surface
- (b) left vertical tail surface
- (c) right vertical tail surface
- (d) APU inlet
- (e) SRM booster base
- (f) SRM booster
- (g) external tank
- (h) external tank base

13 IA9C tabulated pressure data
- (a) orbiter fuselage
- (b) orbiter base
- (c) upper MPS nozzle
- (d) OMS nozzle
- (e) body flap
- (f) OMS pod outside

14 IA9C tabulated pressure data
- (a) lower wing surface
- (b) upper wing surface
- (c) left vertical tail surface
- (d) right vertical tail surface

15 IA9C tabulated pressure data
- (a) APU inlet
- (b) SRM booster base
- (c) SRM booster
- (d) external tank
- (e) external tank base

16 OA12A tabulated pressure data
- (a) orbiter fuselage
- (b) orbiter base
- (c) upper MPS nozzle
- (d) OMS nozzle
- (e) body flap
- (f) OMS pod outside

17 OA12A tabulated pressure data
- (a) lower wing surface
- (b) upper wing surface
- (c) left vertical tail surface
- (d) right vertical tail surface
- (e) APU inlet

18 OA12C tabulated pressure data
- All components

NOMENCLATURE
General

SYMBOL	SADSAC SYMBOL	DEFINITION
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_l - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2, psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2, psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3, $slugs/ft^3$
		Reference & C.G. Definitions
A_b		base area; m^2, ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
ℓ_{REF} $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2, ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

SYMBOL	SADSAC SYMBOL	DEFINITION
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
		Stability-Axis System
C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

ADDITIONS TO STANDARD LIST

SYMBOL	PLOT SYMBOL	DEFINITION
δ_R	RUDDER	rudder, surface section angle, positive deflection, trailing edge to the left; degrees.
δ_e	ELEVON	elevon, surface deflection angle, positive deflection, trailing edge down; degrees.
δ_{RF}	RUDFLR	rudder flare, split rudder deflection angle, left split rudder trailing edge left and right split rudder trailing edge right, $\delta_{RF} = (\delta_{RL} + \delta_{RR})/2$, positive deflection; degrees.
i_o	ORBINC	incidence angle between the orbiter and external tank, $i_o = \alpha_t - \alpha_t$; degrees.
β_T	BETAT	angle of sideslip of external tank.
α_T	ALPHAT	angle of attack of external tank.
ℓ_B	LB	length of orbiter body; in.
ℓ_T	LT	length of external tank; in.
ℓ_s	LS	length of SRM booster; in.
ℓ_{NM}	LNM	length of OMS nozzle, positive direction forward of exit plane; in.
ℓ_{NP}	LNP	length of MPS nozzle, positive direction forward of exit plane; in.
b/2	BW	wing semi-span; in.
b_v	BV	vertical tail span; in.
x	X	distance from component nose; in.
y	Y	lateral distance from centerline; in.

SYMBOL	PLOT SYMBOL	DEFINITION
z	Z	vertical distance measured from W.L. 500 (vertical tail reference root chord); in.
c_w	CW	local wing chord; in.
c_v	CV	local vertical tail chord; in.
x/ℓ_B	X/LB	longitudinal position/orbiter body length.
x/ℓ_T	X/LT	longitudinal position/external tank length.
x/ℓ_S	X/LS	longitudinal position/booster length.
x/ℓ_{NM}	X/LNM	longitudinal position/OMS nozzle length.
x/ℓ_{NP}	X/LNP	longitudinal position/MPS nozzle length.
x/c_w	X/CW	local chordwise position/local wing chord length.
x/c_v	X/CV	local chordwise position/local vertical tail chord length.
y/b/2	Y/BW	local spanwise position/wing semi-span.
z/b_v	Z/BV	local spanwise position/vertical tail span.

CONFIGURATIONS INVESTIGATED

The 0.030-scale aero loads model was a replica of the Space Shuttle Vehicle 2A. It consisted of four major components: the orbiter, the external oxygen and hydrogen tank (ET) and two solid rocket boosters (SRB).

On the ascent configuration, the orbiter was strut mounted from the ET on a Task Corporation MK XVI 2.5-inch diameter internal balance. The left SRB was strut mounted from the ET on a Task Corporation MK XXII 1.5-inch diameter internal balance. No attempt was made to simulate actual inter-attachments. The ET was sting mounted to the tunnel model support system on a Task Corporation 4.0-inch diameter internal balance. The right SRB was strut mounted symetrically to the left side, but did not contain a balance. The orbiter configuration, designated as O_{2A}, consisted of $B_{10}C_5D_7W_{87}V_5R_5M_3F_4$.

The entry configuration consisted of the isolated orbiter, sting mounted to the tunnel model support system on a Task Corporation MK XXA 2.5-inch diameter internal balance. Midway through the OA12C test, the MK XXA balance was damaged and was replaced by the MK XXB for the high angles of attack. The orbiter was provided with deflectable elevons by means of interchangeable brackets, deflectable rudder by means of a pin-indexed hinge, and interchangeable rudders to obtain different speed brake flare angles. The main propulsion system engines were removed during entry configuration testing to provide sting clearance. A cover plate was provided for the strut clearance hole.

The orbiter was instrumented with 374 pressure orifices on the left wing, left side of the fuselage, vertical tail, left OMS pod and engine, left and upper MPS engine and the base. The pressures were measured using eleven Scanivalve, Inc., S-type valve modules mounted internally (a five and a six gang unit). When tested in the entry configuration, the MPS pressures were not available for measurement.

The left side of the ET was instrumented with 136 pressure orifices. These pressures were measured by means of 7 Scanivalve, Inc., S-type valve modules configured as one unit of 6 modules and one single. These valves were mounted internally in the tank. The left SRB had one gang of six S-type modules to measure 102 pressures. The right SRB was not instrumented. The pressure transducers used in the valve modules were Statham PM 131 TC differential pressure transducers, with ranges of ±10 psid, ±12.5 psid and ±15 psid. Reference and calibration pressures were measured by the ARC micro manometers.

Some modifications were made to the model at the test site prior to

testing. These were as follows:

1. The forward tip of the ET containing the retro rocket package (Reference NR Drawing VL78-000018) was replaced with a flush 0.90 inch radius nose (Model scale). The new nose had five pressure taps; one in the nose and four more aft of the nose on the vertical and horizontal axis on a 0.315 inch radius.

2. The ET balance cavity was enlarged by one inch on the diameter (from 5 inches to 6 inches) to provide clearance for cable routing and eliminate balance interference.

3. The clearances around both the orbiter and the SRB struts were opened to approximately 1/8 inch to prevent interference.

4. An alternate rudder hinge pin was provided to give a rudder deflection of +15 degrees.

Before and during the tests various model discrepancies developed or were discovered. These were generally minor and had only a negligible, if any, effect on the data. Significant discrepancies are noted below:

1. Pressure orifices P171 and P173 on the OMS pod base were omitted.

2. During the test certain pressure taps developed leaks or became plugged. Data from these taps are questionable and should be used with caution. Difficulties in checking may have resulted in erroneous indications of leakage. Repairs were made to correct leaking or plugged pressure instrumentation, whenever possible, as the test progressed. The following list gives those taps that were indicated as bad on the various leak and response checks:

ARC Facility	Run Nos.	Orifice numbers with questionable pressure data
11'	2-4	72, 163, 427
↓	5-118	31, 100, 123, 163, 201, 427
	119-160	16, 98, 101, 107, 333, 427
	161-170	16, 98, 101, 107, 333, 427 + 306, 307, 327, 328, 336, 337, 356, 357, 375

CONFIGURATIONS INVESTIGATED (CONCLUDED)

ARC Facility	Run Nos.	Orifice numbers with questionable pressure data
11'	171-182	16, 47, 53, 75, 78, 98, 107, 201, 236, 237, 238, 307, 327, 365, 427
↓	183-189	Same as (171-182) + 7, 447, 525
↓	190-211	Same as (171-182)
8'x7'	220-234	20, 21, 24, 74, 326, 327, 336, 424, 427, 752, 868, 871
↓	235-285	74, 326, 327, 336, 424, 427, 752, 868, 871
↓	286-300	74, 107, 115, 124, 129, 138, 326, 327, 336, 427
↓	301-305	74, 326, 327, 336, 427
↓	306-333	74, 326, 327, 427
9'x7'	340-396	5, 325, 326, 327, 424, 427, 526, 752, 868, 871

TEST FACILITIES DESCRIPTION

Ames 11 x 11-Ft. Transonic

The Ames 11 x 11-Foot Transonic Wind Tunnel is a variable density, closed return, continuous flow type. This tunnel has an adjustable nozzle (two flexible walls) and a slotted test section to permit transonic testing over a Mach number range continuously variable from 0.4 to 1.4.

Ames 8 x 7-Ft. Supersonic

The Ames 8 x 7-Foot Supersonic Wind Tunnel is a closed-return, variable-density tunnel with a 8- by 7-foot rectangular test section. The nozzle has flexible side walls with fixed upper and lower surfaces. Mach number range is continuously variable from 2.45 to 3.5. Tunnel stagnation pressure can be varied from 0.3 to 2.0 atmospheres and Reynolds number per foot varies from 1.0×10^6 to 5.0×10^6.

Ames 9 x 7-Ft. Supersonic

The Ames 9 x 7-Foot Supersonic Wind Tunnel is a variable density, continuous flow type with an adjustable nozzle to permit supersonic testing over a Mach number range continuously variable from 1.5 to 2.5. The nozzle is of the asymmetric, sliding-block type in which the variation of the test section Mach number is achieved by translating, in the streamwise direction, the fixed-contour block that forms the floor of the nozzle.

DATA REDUCTION

Standard procedures were utilized to reduce force and pressure data to coefficient form. The following dimensional constants were applied:

Reference Dimensions and Constants (Model Scale)

$S_{Ref.} = 2.421\ ft^2$	Orbiter reference area
$\ell_{Ref.} = 39.849$ in.	Orbiter reference length

Base Areas (Model Scale)

$A_{BOI} = 0.1903\ Ft^2$	Orbiter base area, integrated
$A_{BOA} = 0.2362$	Orbiter base area, sting mounted
$A_{BMPSU} = 0.0417$	Orbiter upper MPS base area
$A_{BMPSL} = 0.0853$	Orbiter lower MPS base area
$A_{BACPS} = 0.0310$	Orbiter ACPS base area on OMS pod
$A_{BOMS} = 0.0231$	Orbiter OMS nozzle base area
$A_{BPOD} = 0.0257$	Orbiter OMS pod base area
$A_{CO} = 0.0611$	Orbiter sting cavity base area
$A_{BNOZ} = 0.0564$	SRM nozzle base area
$A_{BSKIRT} = 0.1729$	SRM nozzle skirt base area
$A_{BETI} = 0.3189$	ET Base area
$A_{CET} = 0.1964$	ET Sting cavity base area

TEST : OA12 / FAD | TABLE I. | DATE : May, 1973

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. foot)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.6	4.0×10^6	540	120° NOM.
0.9	4.5	800	↓
1.1	4.0	800	
1.25	3.0	630	
1.4	3.0	650	
1.55	2.8	600	
2.0	2.3	490	
2.5	1.5	300	
3.0	2.0	350	
3.5	2.0	300	

BALANCE UTILIZED: FIVE (5) TASK CORPORATION BALANCES WITH CAPACITIES AS FOLLOWS:

	ISOLATED ORBITER MK IIA	ISOLATED ORBITER MK IIB	INTEGRATED VEHICLE ORB MK III	INTEGRATED VEHICLE SRB MK II	INTEGRATED VEHICLE ET MK II B
N_F	3000	3000	2400	1250	4000
N_A	3000	3000	2400	1250	4000
Y_F	1500	1500	1200	500	2000
Y_A	1500	1500	1200	500	2000
X	600	600	1000	200	1000
R	4000	4000	4000	1000	10,000
SIZE	2.5"	2.5"	2.5"	1.5"	4.0"

COMMENTS: THE MARK IIA, 2.5% DIA. BALANCE WAS DAMAGED AFTER RUN 319. THE MARK IIB WAS SUBSTITUTED FOR RUN 320 AND SUBSEQUENT RUNS

TABLE II.

TEST: ARC 11-707 [illegible]

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 4-[illegible]-[illegible]

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	δ_{FR}	L_o	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	0.9	1.1	1.25	1.4	TEST RUN NUMBERS
RBMx01	$\phi_{2A} + S_3 + T_9$	A	0	0	0	0	1.5	4	3	5	6	7		
02	~	A	0	~	~	~	0.5	5	8	18	28	38	48	
03		-8	B				~	4	9	19	29	39		
04		-6	~					~	10	20	30	40		
05		-4							11	21	31	41		
06		-2						↓	12	22	32	42		
07		0						5	13	23	33	43	49	
08		2						4	14	24	34	44		
09		4						~	15	25	35	45		
10		6			↓				16	26	36	46		
11		8	↓					↓	17	27	37	47		
12		-8	C		-5			2			97	102		
13		-6	~		~			~			118	111		
14		-4									98	103		
15		-2									117	112		
16		0									99	104		
17		2									116	113		
18	↓	4	↓	↓	↓	↓	↓	↓			100	105		

1 7 13 19 25 31 37 43 49 55 61 67 75 78

α OR β SCHEDULES — COEFFICENTS — IDVAR (1) — IDVAR (2) — NDV

$\alpha A = -8, -6, -4, -2, 0, 2, 4, 6, 8$

$\beta B = -8, -6, -4, -2, 0, 2, 4, 6, 8$

$\beta C = -8, -4, 0, 4, 8$

TABLE II. CONTINUED

TEST: ARC - 11 - 707 (IA ?-

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE:

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	δ_{FR}	C_0	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	0.9	1.1	1.25	TEST RUN NUMBERS
RBMx 19	ϕ_{2A} - S_3 + T_7	6	C	0	-5	0	0.5	2			115	114	
20		8			-5						101	106	
21		-8			-10						60	69	
22		-6									61	70	
23		-4									62	71	
24		-2									63	72	
25		0									64	73	
26		2									65	74	
27		4									66	75	
28		6									67	76	
29		8									68	77	
30		-8			-15						78	88	
31		-6									79	89	
32		-4									80	90	
33		-2									81	91	
34		0									82	92	
35		2									83	93	
36		4									84	94	

1 7 13 19 25 31 37 43 49 55 61 67 75 78

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TABLE II. CONTINUED

TEST : ARC 11-707 (I...

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE :

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_B	δ_R	δ_{FR}	i_a	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	0.9	1.1	1.25	TEST RUN NUMBERS
RBMx 37	$\phi_{2A} + S_3 + T_9$	6	C	0	-15	0	0.5	2			85	95	
38		8			-15						87	96	
39		-8			-5						50	55	
40		-4									51	56	
41		0									52	57	
42		4									53	58	
43		8									54	59	
44		A	0	0	0	0	-1.2	4	107	108	109	110	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TABLE II. CONTINUED

TEST: ARC 97-707 TARE. DATA SET/RUN NUMBER COLLATION SUMMARY DATE 5-17-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δe	δR	io	δRF	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 1.55	2.0	TEST RUN NUMBERS
2B0x 01	$\delta_{24} + S_3 + T_9$	A	0	0	0	0.5	0	2	341	351	
02		B	B						342	360	
03		6							343	359	
04		4							344	358	
05		2							345	357	
06		0							346	356	
07		-2							347	355	
08		-4							348	354	
09		-6							349	353	
10		-8							350	352	
11		-8	C		-15				361	367	
12		-4							362	368	
13		0							363	369	
14		4							364	370	
15		6							365	371	
16		8							366	372	
17		-8			-10				373	379	
18		-4			-10				374	380	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

COEFFICENTS

α(A) = -8, -6, -4, -2, 0, 2, 4, 6, 8

β(B) = 8, 6, 4, -4, -6, -8

β(C) = 8, 6, 4, 0, -4, -6, -8

TABLE II. CONTINUED

TEST: ARC 97-707 (IA76)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE 5-17-73

DATA SET IDENTIFIER	CONFIGURATION	SCHEDULES α	SCHEDULES β	PARAMETERS/VALUES δ_e	δ_R	i_o	δ_{RF}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 1.55	2.0	TEST RUN NUMBERS
RB0x19	$\phi_{2A} + S_3 + T_9$	0	C	0	-10	0.5	0	2	375	381	
20		4							376	382	
21		6							377	383	
22		8							378	384	
23		-8			+15				385	391	
24		-4							386	392	
25		0							387	393	
26		4							388	394	
27		6							389	395	
28		8							390	396	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TABLE II. CONTINUED

TEST: ARC 8×7 - 707 (IAGC) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 5 - 1 - 73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δ_e	δ_R	δ_{FR}	C_o	NO. OF RUNS	MACH 2.5	MACH 3.0	MACH 3.5	TEST RUN NUMBERS
RBNx 01	$W_{2A} + T_3 + T_9$	A	0	0	0	0	0.5	3	240	230	220	
02		-8	B						241	231	221	
03		-6							242	232	222	
04		-4							243	233	223	
05		-2							244	234	224	
06		0							245	235	225	
07		2							246	236	226	
08		4							247	237	227	
09		6							248	238	228	
10		8							249	239	229	
11		-8	C		-15				267	256	250	
12		-4							266	257	251	
13		0							265	258	252	
14		4							264	259	253	
15		6							263	260	254	
16		8							262	261	255	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES — COEFFICENTS

αA = -8, -6, -4, -2, 0, 2, 4, 6, 8

βB = -8, -6, -4, -2, 2, 4, 6, 8

IDVAR (1) IDVAR (2) NDV

βC = -8, -6, -4, 0, 4, 6, 8

TABLE II. CONTINUED

TEST: ARC 8×7-707 (IA9C) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 5-1-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	δ_{FR}	i_0	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	3.0	3.5	TEST RUN NUMBERS
RBNx17	$\emptyset_{2A}$ + S_3 + T_9	-8	C	0	-10	0	0.5	3	274	280*	268	
18		-4							275	281*	269	
19		0							276	282*	270	
20		4							277	283*	271	
21		6							278	284*	272	
22		8							279	285*	273	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

COEFFICENTS

* NOTE: RUNS 280-285: β SCHEDULE IS: -8, -4, 0, 4, 8

TABLE II. CONTINUED

TEST : AMES 11-707 (OA12A) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE 4-23-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	PARAMETERS/VALUES δ_R	PARAMETERS/VALUES δ_{FR}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.9	TEST RUN NUMBERS
RBPx01	$B_{10}C_5D_7N_2F_4M_3N_8V_5R_5W_{57}E_{10}$	A	0	0	0	0	2	119	125	
02		0	B					120	126	
03		5						121	127	
04		10						122	128	
05		15						123	129	
06		20						124	130	
07		0	C		-10			131	136	
08		5						132	137	
09		10						133	138	
10		15						134	139	
11		20						135	140	
12		0			-20			141	146	
13		5						142	147	
14		10						143	148	
15		15						144	149	
16		20						145	150	
17		0	D	10	0			151	156	
18		5	D	10	0			152	160	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES — COEFFICENTS

α A = MAX, 0, 5, 10, 15, 20, 25

β B = -10, -5, 5, 10

β C = 8, -4, 0, 4, 8

β D = -10, 0, 10

β E = -5, 0, 5

TABLE II. CONTINUED

TEST: AMES 11-707 (OA12A) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 4-23-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	δ_{FR}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	0.9	TEST RUN NUMBERS
RBPx19	$B_{12}C_5D_7N_2F_4M_3N_8V_5R_5W_{87}E_{16}$	10	D	+10	0	0	2	153	157	
20		15						154	159	
21		20						155	158	
22		0	C	-10				161	166	
23		5						162	167	
24		10						163	168	
25		15						164	169	
26		20						165	170	
27		-4	E	-20				171	182	
28		0	C					172	181	
29		5						173	180	
30		10						174	179	
31		15						175	178	
32		20						176	177	
33		-4	E	0	0	40		183	189	
34		0	C					184	190	
35		5						185	191	
36		10						186	192	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES — COEFFICENTS

α A = -MAX, 0, 5, 10, 15, 20, 25

β B = -10, -5, 5, 10

β C = -8, -4, 0, 4, 8

β D = -10, 0, 10 β E = -5, 0, 5

TABLE II. CONTINUED

TEST : AMES 11-707 (OA12A) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE · 4-23-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	δ_{FR}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	0.9	1.1	1.25	1.4	TEST RUN NUMBERS
RBPx37	$B_1 C_5 D_1 N_2 E_4 H_3 N_8 V_5 P_5 W_{07} E_{18}$	15	C	0	0	40		187	193				
38		20	C			40		188	194				
39		F	0			0				199	197	195	
40		0.5	G							200	198	196	
41		-4	E		-10			201	202				
42		-4	E		-20			203	204				
43		-4	E	10	0	0		205	206				
44		-4	E	-10				207	208				
45		-4	E	0				210	209				
46		H	0					216	211				
47		-5	I					215	212				
48		-10	I					214	213				

1 7 13 19 25 31 37 43 49 55 61 67 75 76

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES — COEFFICIENTS

α_F = -4.5, -3.5, -1.5, 0.5, 2.5, 4.5, 6.6, 8.6, 10, 15 α_H = 0, -5, -10, -15

β_G = -8, -4, -2, 0, 2, 4, 8 β_I = -10, -5, 5, 10

TABLE II. CONTINUED

TEST: 37-707 (@A12C1) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE 5-9-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δ_e	δ_R	δ_{FR}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	3.5	TEST RUN NUMBERS
R8Qx01	$B_1X_5C_4C_7N_2F_6M_6N_8V_5F_3W_9T_{F_8}$	A	0	0	0	40	2	290	286	
02		0	B					293	289	
03		10	C					292	288	
04		20	C					291	287	
05		0	D		-20			297	294	
06		10						298	295	
07		20						299	296	
08		0		10	0			303	300	
09		10						304	301	
10		20						305	302	
11		0		-20				309	306	
12		10						310	307	
13		20						311	308	
14		0		-40				317	314	
15		10						318	315	
16		20						319	316	
17		E	0	0				322	320	
18		30	D	0				323	321	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS — IDVAR (1) — IDVAR (2) — NDV

α OR β SCHEDULES

αA = 0, 5, 10, 15, 20

AB = 3, -3

αE = 15, 20, 25, 30, 35, 40

βC = 6, 3, -3, -6

βD = 6, 3, 0, -3, -6

TABLE II. CONCLUDED

TEST: 87-707 (ΦA12C) | DATA SET/RUN NUMBER COLLATION SUMMARY | DATE 5-1-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δe	δR	δFR	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	3.5	TEST RUN NUMBERS
REQx 19	$B_1D_{-5}O_1N_2F_6M_{13}N_5V_5R_5W_{17}E_{14}$	30	D	0	-20	40	2	325	324	
20		30	D	10	0	40		327	326	
21		30	D	-20	0	40		329	328	
22		20	F	0	0	40		332	330	
23		15	G	0	0	40		333	331	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

BF = 10, 6, 0, -6, -10

BS = 6, 0, -6

TABLE III. MODEL COMPONENT DIMENSIONAL DATA

MODEL COMPONENT: B10 Body

GENERAL DESCRIPTION: Fuselage, 2A Configuration, Lightweight Orbiter, per Rockwell Lines VL70-000089 "B."

Scale Model = .030

DRAWING NUMBER: VL70-000089 "B"
VL70-000092, 93, 94 "A"

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length ~ IN	1328.3	39.8490
Max. Width ~ IN ($@X_o$ = 1528.3)	265.0	7.9500
Max. Depth ~ IN. ($@X_o$ = 1480.52)	248.0	7.4400
Fineness Ratio	5.012	5.012
Area ~ Ft^2		
Max. Cross-Sectional	456.4	.41076
Planform		
Wetted		
Base		

TABLE III. (CONTINUED)

MODEL COMPONENT: Canopy - C5

GENERAL DESCRIPTION: 2A Configuration per Lines VL70-000092

Scale Model = .030

DRAWING NUMBER: VL70-000092

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length (STA FWD Bulkhead)	391.0	11.730
Max. Width (T.E. Bulkhead)	560.0	16.800
Max. Depth (WP = 42.9 22 to = 500)		
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

TABLE III. (CONTINUED)

MODEL COMPONENT: Manipulator Housing D-7

GENERAL DESCRIPTION: 2A Configuration per Rockwell Lines VL70-000093

Scale Model = .030

DRAWING NUMBER: VL70-000093

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length ~ IN.	881.00	26.430
Max. Width ~ IN.	51.00	1.530
Max. Depth ~ IN.	23.00	.690
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

C Fuselage BP = 0.00

WP = 500.0 IN. FS

X.426.0 to 1307.0 IN. FS

TABLE III. (CONTINUED)

MODEL COMPONENT: WING-W87 New Light Weight Orbiter

GENERAL DESCRIPTION: Orbiter Configuration Per Lines VL70-000093.

NOTE: (Dihedral Angle is defined at the lower surface of the Wing at the 75.33% element line projected into a plane perpendicularly.

Scale Model = .030

TEST NO. D.G. NO. VL70-000093

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo.) Ft^2 Planform	2690.00	2.42100
Span (Theo In.	936.68	28.10040
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.2000
Dihedral Angle, degrees	3.5000	3.500
Incidence Angle, degrees	3.000	+3.00
Aerodynamic Twist, degrees	3.500	+3.000
Sweep Back Angles, degrees		
Leading Edge	45.00	45.00
Trailing Edge	-10.24	-10.24
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.0.0.	689.24	20.67720
Tip, (Theo) B.P. 46834	137.85	4.13550
MAC	474.81	14.24430
Fus. Sta. of .25 MAC	1136.89	34.10670
W.P. of .25 MAC	299.20	8.97840
183.13 B.L. of .25 MAC	182.13	5.46390
EXPOSED DATA		
Area (Theo) Ft^2	1752.29	1.57706
Span, (Theo) In. BP108 to 468.341	720.68	21.62040
Aspect Ratio	2.058	2.058
Taper Ratio	.2451	.2451
Chords		
Root BP108	562.40	16.8720
Tip 1.00 $\frac{b}{2}$	137.85	4.13550
MAC	393.03	11.79090
Fus. Sta. of .25 MAC	1185.31	35.55930
W.P. of .25 MAC	300.207	9.00621
B.L. of .25 MAC	143.76	4.31280
Airfoil Section (Rockwell Mod NASA) XXXX-64		
Root $\frac{b}{2}$ = .425	.10	.10
Tip $\frac{b}{2}$ = 1.00	.12	.12
Data for (1) of (2) Sides		
Leading Edge Cuff Planform Area Ft^2	120.33	1.0830
Leading Edge Intersects Fus M. L. @ Sta	560.0	16.80
Leading Edge Intersects Wing @ Sta	1035.0	31.050

TABLE III. (CONTINUED)

MODEL COMPONENT: Elevon E-18

GENERAL DESCRIPTION: 2A Configuration Per W-87 Rockwell Lines VL 70-000093

Data for (1) of (2) Sides

Scale Model = .030

DRAWING NUMBER: VL 70-000093

DIMENSIONS:		FULL-SCALE	MODEL SCALE
Area ~ Ft^2		205.52	.18497
Span (equivalent) ~ IN.		353.34	10.60020
Inb'd equivalent chord		114.78	3.44340
Outb'd equivalent chord		55.00	1.6500
Ratio movable surface chord/ total surface chord			
At Inb'd equiv. chord		.208	.208
At Outb'd equiv. chord		.400	.400
Sweep Back Angles, degrees			
Leading Edge		0.00	0.00
Tailing Edge		-10.24	-10.24
Hingeline		0.00	0.00
Area Moment (Normal to hinge line) Product of Area Moment	Ft^3	1548.07	.04180

TABLE III. (CONTINUED)

MODEL COMPONENT: VERTICAL - V5 (Light Weight Orbiter Configuration)

GENERAL DESCRIPTION: Centerline Vertical Tail, Double Wedge Airfoil with Rounded Leading Edge

Scale Model = .030

DRAWING NUMBER: VL70-000095

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) Ft^2	413.25	.37192
Planform		
Span (Theo) In	315.72	9.47160
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	.404	.404
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.249	26.249
0.25 Element Line	41.130	41.130
Chords:		
Root (Theo) WP	268.50	8.05500
Tip (Theo) WP	108.47	3.25410
MAC	199.81	5.99430
Fus. Sta. of .25 MAC	1463.50	43.90500
W. P. of .25 MAC	635.522	19.06566
B. L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle Deg	10.000	10.000
Trailing Wedge Angle Deg	14.920	14.920
Leading Edge Radius IN.	2.00	.06
Void Area Ft^2	13.17	.01185
Blanketed Area Ft^2	12.67	.01140

TABLE III. (CONTINUED)

MODEL COMPONENT: R-5 Rudder

GENERAL DESCRIPTION: ZA Configuration per Rockwell Lines VL 70-000095

Scale Model = .030

DRAWING NUMBER: VL 70-000095

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area ~ Ft^2	106.38	.09574
Span (equivalent) ~IN.	201.0	6.030
Inb'd equivalent chord	91.585	2.74755
Outb'd equivalent chord	50.833	1.52499
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Tailing Edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Normal to hinge line) ~Ft^3 Product of Area and Mean Chord	526.13	.01421

TABLE III. (CONTINUED)

MODEL COMPONENT: OMS Pod -M3

GENERAL DESCRIPTION: 2A Light Weight Configuration per Rockwell Lines VL70-000094A

Scale Model = .030

DRAWING NUMBER: VL70-000094A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length	346.0	10.380
Max. Width X_{-} = 1450.0	108.0	3.240
Max. Depth X_{o} = 1500.0	113.0	3.390
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

℄ of OMS Pod

WP = 463.9 IN. FS WP 400 + 63.9 = 463.9

BP = 80.0 IN. FS

Length 1214.0 to 1560.0 = 346.0 IN. FS

TABLE III. (CONTINUED)

MODEL COMPONENT: F4 Body Flap

GENERAL DESCRIPTION: 2A Configuration per Rockwell Lines VL70-000094A

Scale Model = .030

DRAWING NUMBER: VL70-000094A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length	84.70	2.541
Max. Width	265.00	7.950
Max. Depth		
Fineness Ratio		
Area ~ Ft^2		
Max. Cross-Sectional		
Planform	142.64	.12838
Wetted		
Base Ft^2	38.65	.03478

TABLE III. (CONTINUED)

MODEL DIMENSIONAL DATA

MODEL COMPONENT : S3-Booster Solid Rocket Motor

GENERAL DESCRIPTION : 2A Configuration Per Rockwell Lines VL77-000012 & VL72-000061 "B"

Body of Revolution; Data for (1) of (2) Sides

Scale Model = .030

DRAWING NUMBER : VL 77-000012

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length -IN.	1732.0	51.96
Max Width (DIA) IN. BSRM Tank	142.0	4.260
Max Depth (DIA) Aft Skirt	259.0	7.77
Fineness Ratio L/D	6.687	6.687
Area - Ft^2		
Max. Cross-Sectional (Aft Skirt)	365.87	.32928
Planform		
Wetted		
Base		

Ref.

FS (Orbiter) = 0.00 = 747.99 IN. ET = 200.0 IN. BSRM

WP (BSRM) = WP 400(Orbiter) - 344.413 = 55.587 IN.

BP (Orbiter) = 0.00 = 243.0 IN. BSRM

TABLE III. (CONCLUDED)

MODEL COMPONENT: EXTERNAL TANK - T9

GENERAL DESCRIPTION: 2A Configuration

NOTE: T9 identical to T8 W/O retro pkg., nose w/30"R F.S.

DRAWING NUMBER NONE

DIMENSION:	FULL SCALE	MODEL SCALE
Length - IN.	1858	55.740
Max Width (Dia) - IN.	324.0	9.720
Max Depth		
Fineness Ratio L/D	5.73457	5.73457
Area - FT^2		
Max Cross-Sectional	572.56	0.51530
Planform		
Wetted		
Base		
Nose, Radius, IN.	30.0	

ORBITER STATION ~ X_o			RADIAL LOCATION θ ~ DEGREES																	
FULL	MOLD	X_o/ℓ_o	0	20	40	55	70	90	105	110	120	135	142	150	157	162	165	169	172	180
200	6.00	0	20																	23
210	6.30	.008	21					22												32
225	6.75	.019	24	25	26	27	28	29			30			31						40
245	7.35	.034	33	34	35	36	37	38			39			40						50
260	8.40	.060	42	43	44	45	46	47			48			49						59
380	11.40	.136	51	52	53	54	55	56			57			58					60	
401	12.00	.151													61					
410	12.30	.158																		
430	12.90	.173	62	63	64	65	66	67			68			69		70		71		72
460	13.80	.196											73							
500	15.00	.226	74	75	76	77	78	79			80			81			82			83
560	16.80	.271	84		85		86	87			88			89			90			91
625	18.75	.320	92		93		94	95			96			97			98			99
725	21.75	.395	100		101		102	103			104			105			106			107
880	26.40	.512	108		109		110	111			112			113			114			115
980	29.40	.587	116		117															
1080	32.40	.662			118		119	120			121			122			123			124
1180	35.40	.738					125	126			127			128						129
1245	37.35	.787			130		131	132	133		134	135		136			137			138
1300	39.00	.828			139		140	141	142		143	144		145			146			
1375	41.25	.885			147		148	149	150		151	152		153			154			
1430	42.90	.926			155		156	157	158		159	160		161			162			
1480	44.40	.964	163				164	165	166		167	168		169			170			
1530[a]	45.90	1.001								171	173									
1530[b]	45.90	1.001								172	174									

a OMS POD, INSIDE

b OMS POD, OUTSIDE

a. Orbiter body

Table IV. Pressure Orifice Locations

ORBITER BASE

LOCATION	ORIFICE NUMBERS
ORBITER BASE (INTEGRATED)	1, 2, 3, 4
LEFT MPS NOZZLE BASE	5
UPPER MPS NOZZLE BASE	6
ACPS BASE AREA ON OMS POD	7
OMS NOZZLE BASE	8
OMS POD BASE	9
ORBITER BASE (STING MOUNT)	11, 12, 13, 14
ORBITER STING CAVITY	15, 16

BODY FLAP LWR SURFACE

ORB. STA. ~ X_o		θ ~ DEG	
FULL	MODEL	0	40
1580	47.40	175	176

MPS NOZZLE

X ~ IN. FWD BASE		θ ~ DEG					
FULL	MODEL	0	90	135	180	225	270
25	0.75	181	182	183	184	185	186
50	1.50	187	188	189	190	191	192
75	225		193	194	195	196	197

OMS NOZZLE

X ~ IN FWD BASE		θ ~ DEG		
FULL	MODEL	135	180	225
10	0.30	177	178	179
20	0.60		180	

VERTICAL TAIL

WATER PLANE ~ Z_o'				X/C ~ THEORETICAL VERTICAL CHORD							
FULL	MODEL	ηv		0	.05	.15	.30	.52	.65	.775	.90
525	15.75	.079		400							
550	16.50	.158	L	410	411	412	413	414	415	416	
			R		511	512	513	514	515	516	
600	18.00	.316	L	420	421	422	423	424	425	426	427
			R		521	522	523	524	525	526	527
690	20.70	.60	L	430	431	432	433	434	435	436	437
			R		531	532	533	534	535	536	537
765	22.95	.84	L	440	441	442	443	444	445	446	447
			R		541	542	543	544	545	546	547
792	23.76	.925	L	450	451	452	453	454	455	456	457
			R		551	552	553	554	555	556	557

b. Orbiter Base, Body Flap Lower Surface, and Vertical Tail

Table IV. Continued.

ORBITER WING

ORBITER B.P. – Y_o				X/C – THEORETICAL WING CHORD																				
FULL	MODEL	η		-.49	-.35	-.25	-.15	-.033	0.0	.05	.15	.25	.40	.55	.60	.65	.70	.725	.75	.775	.80	.85	.90	.95
240	4.20	.299	U	200	201		202			203		204		205					206		207			
			L		301		302			303		304		305					306		307			
170	5.10	.364	U			210	211			212														
			L				311			312														
200	6.00	.427	U					220		221	222		223	224					225		226			
			L							321	322		323	324					325		32			
250	**7.50**	**.534**	U						230	231	232	233	234	235				236		237				
			L							331	332	333	334	335				336		337		339		
315	9.45	.673	U						250	251	252	253	254	255			256			257		258		259
			L							351	352	353	354	355			356			357		358		359
365	10.95	.780	U						260	261	262	263				264			265			266		
			L							361	362	363				364			365			366		
415	12.45	.887	U						270	271	272	273	274		275				276				277	
			L							371	372	373	374		376				376				377	

U – UPPER SURFACE L – LOWER SURFACE

η	X/C LOCAL WING CHORD
.299	0, .094, .229, .362, .497, .700, .834, .865, .900, .965
.364	0, .086, .246
.427	0, .081, .177, .402, .565, .760, .808, .857, .905, .953
.534	SAME AS THEORETICAL CHORD
.673	↓
.780	
.887	

c. Orbiter Wing

Table IV. Continued.

EXTERNAL TANK

TANK STA ~ XT			θ ~ DEG									
FULL	MODEL	XT/LT	0	30	60	90	120	135	150	165	180	270
316.	9.48	0	610									
317.7	9.53	.001	611			614					619	620
400	12.00	.045	621	622	623	624	625		627		629	
520	15.60	.110	631	632	633	634	635		637	638	639	
640	19.20	.174	641	642	643	644	645		647	648	649	
670	20.10	.191	651	652	653	654	655		657	658	659	
710	21.30	.212	661	662	663	664	665		667	668	669	
750	22.50	.234	671	672	673	674	675	676	677	678	679	
850	25.50	.287	681	682	683	684	685		687	688	689	
950	28.50	.341	691	692	693	694	695	696	697	698	699	
1050	31.50	.395	701	702	703	704	705		707	708	709	
1150	34.50	.449	711	712	713	714	715	716	717		719	
1250	37.50	.503	721	722	723	724	725		727	728	729	
1350	40.50	.557	731	732	733	734	735	736	737		739	
1500	45.00	.637	741	742	743	744	745		747	748	749	
1700	51.00	.745	751	752	753		755	756	757		759	
1900	57.00	.853	761	762	763		765	766	767	768		
2040	61.20	.929	771	772	773	774	775	776	777	778		
STING CAVITY BASE			601 602			603					604	

d. External Tank

Table IV. Continued.

LEFT SRM

SRM STATION ~ XS			θ ~ DEG							
FULL	MODEL	XS/ℓS	0	45	90	135	180	225	270	315
200	6.00	0	810							
260	7.80	.034	811	812	813	814	815	816	817	818
370	11.10	.097	821	822	823	824	825	826	827	828
400	12.00	.114	831	832	833	834	835	836	837	838
450	13.50	.142	841	842	843	844	845	846	847	848
550	16.50	.199	851	852	853	854	855	856	857	858
700	21.00	.284	861		863		865	866	867	868
850	25.50	.370	871		873		875		877	
1050	31.50	.484	881		883		885			
1250	37.50	.597	891		893		895			
1450	43.50	.711	901		903		905		907	
1650	49.50	.825	911		913		915		917	
1750	52.50	.882	921	922	923	924	925	926	927	928
1790	53.70	.904	931	932	933	934	935	936	937	938
1850	55.50	.939	941	942	943	944	945	946	947	948
1900	57.00	.967	951	952	953	954	955	956	957	958
NOZZLE BASE			801							
SKIRT BASE			802		803		804		805	

c. Left SRM

Table IV. Concluded.

Notes:

1. Positive directions of force cofficients, moment coefficients, and angles are indicated by arrow
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

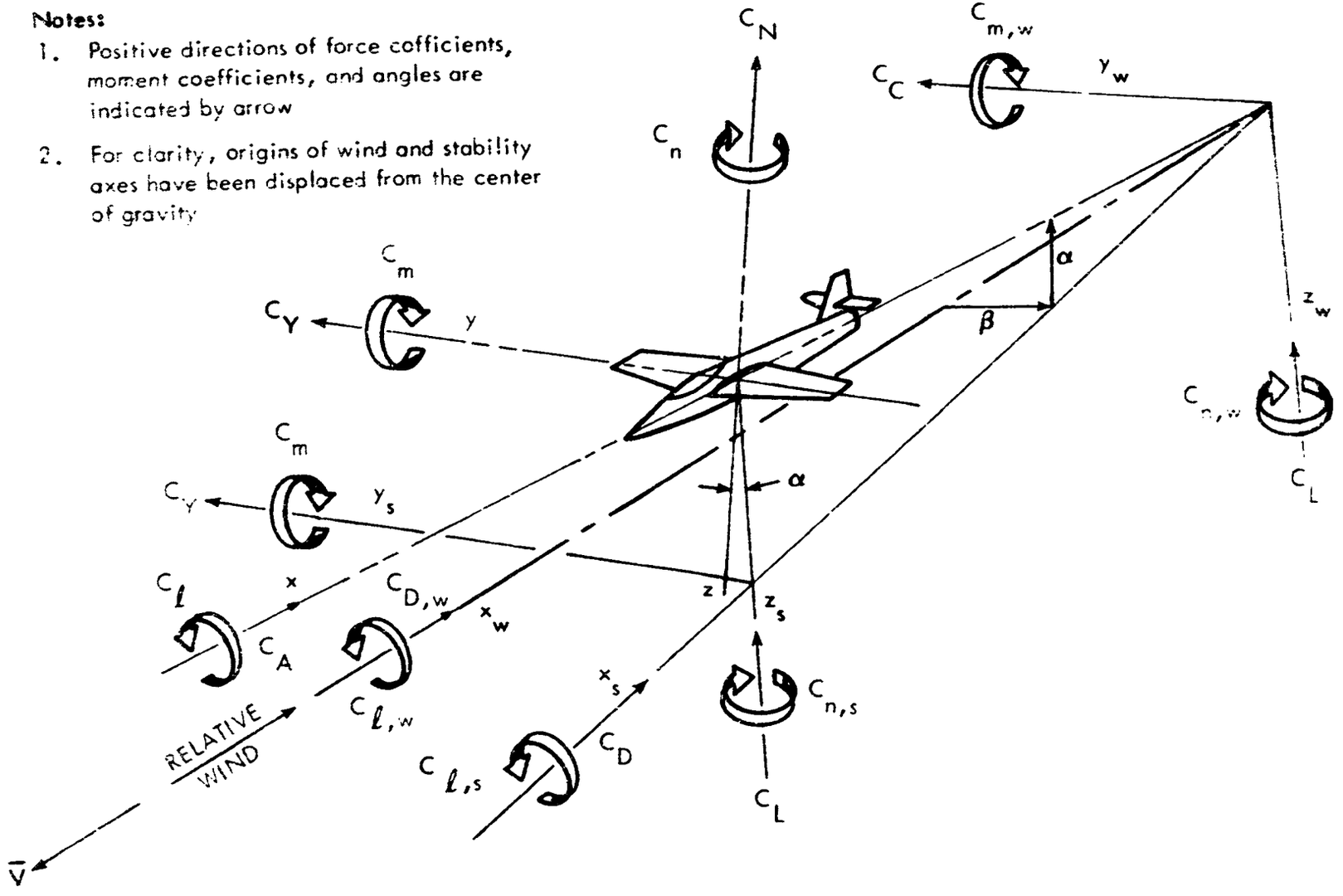
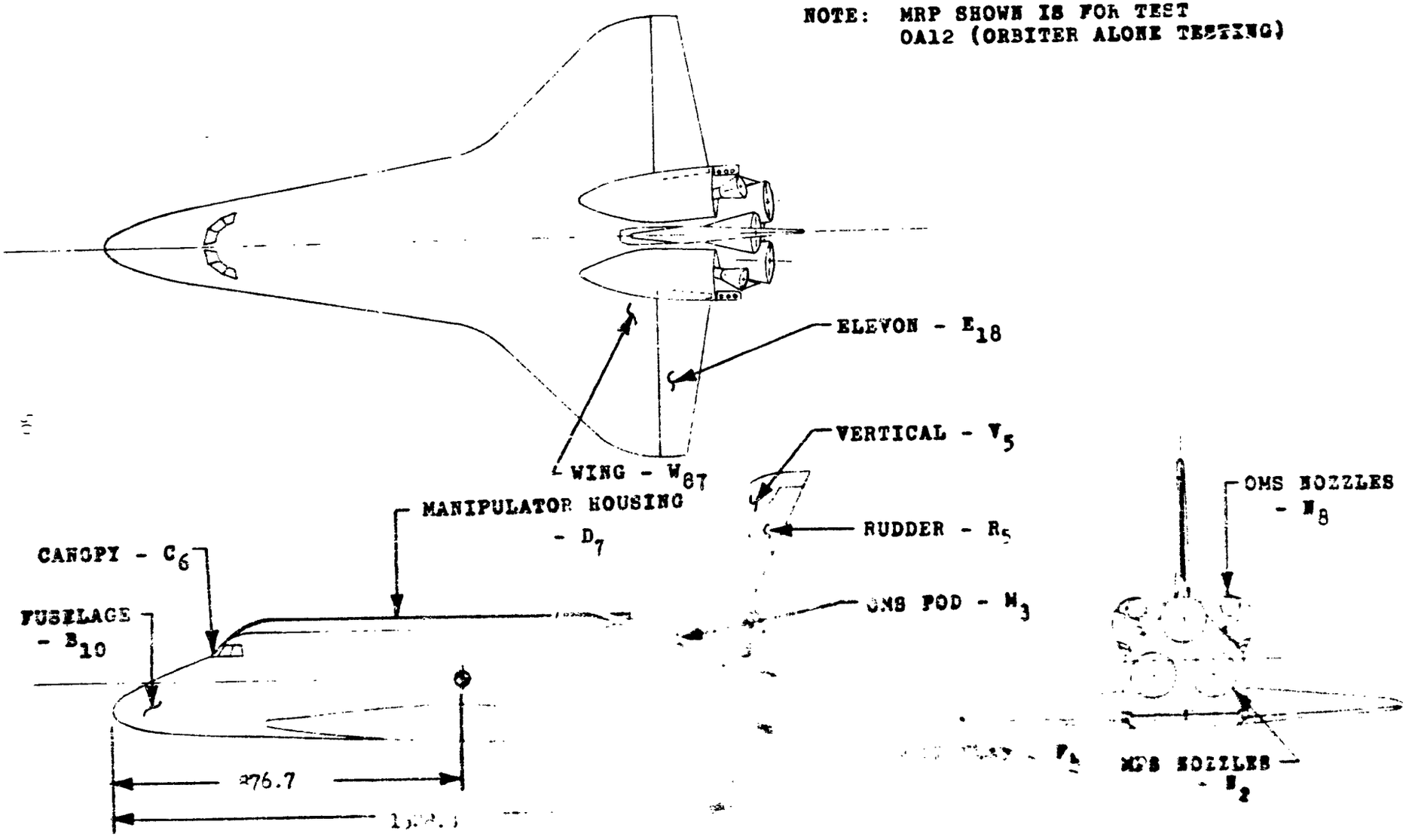
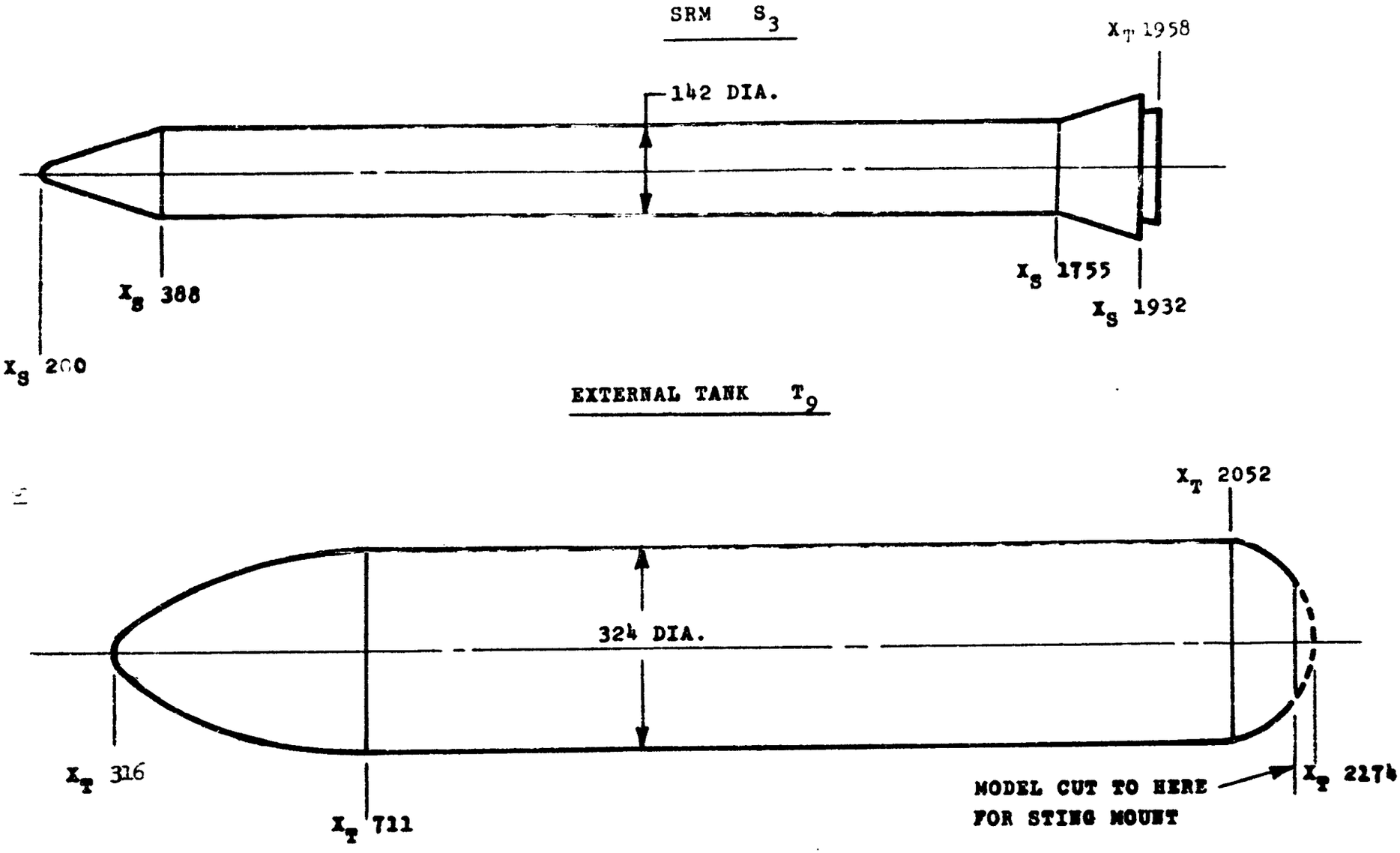


Figure 1. - Axis Systems.

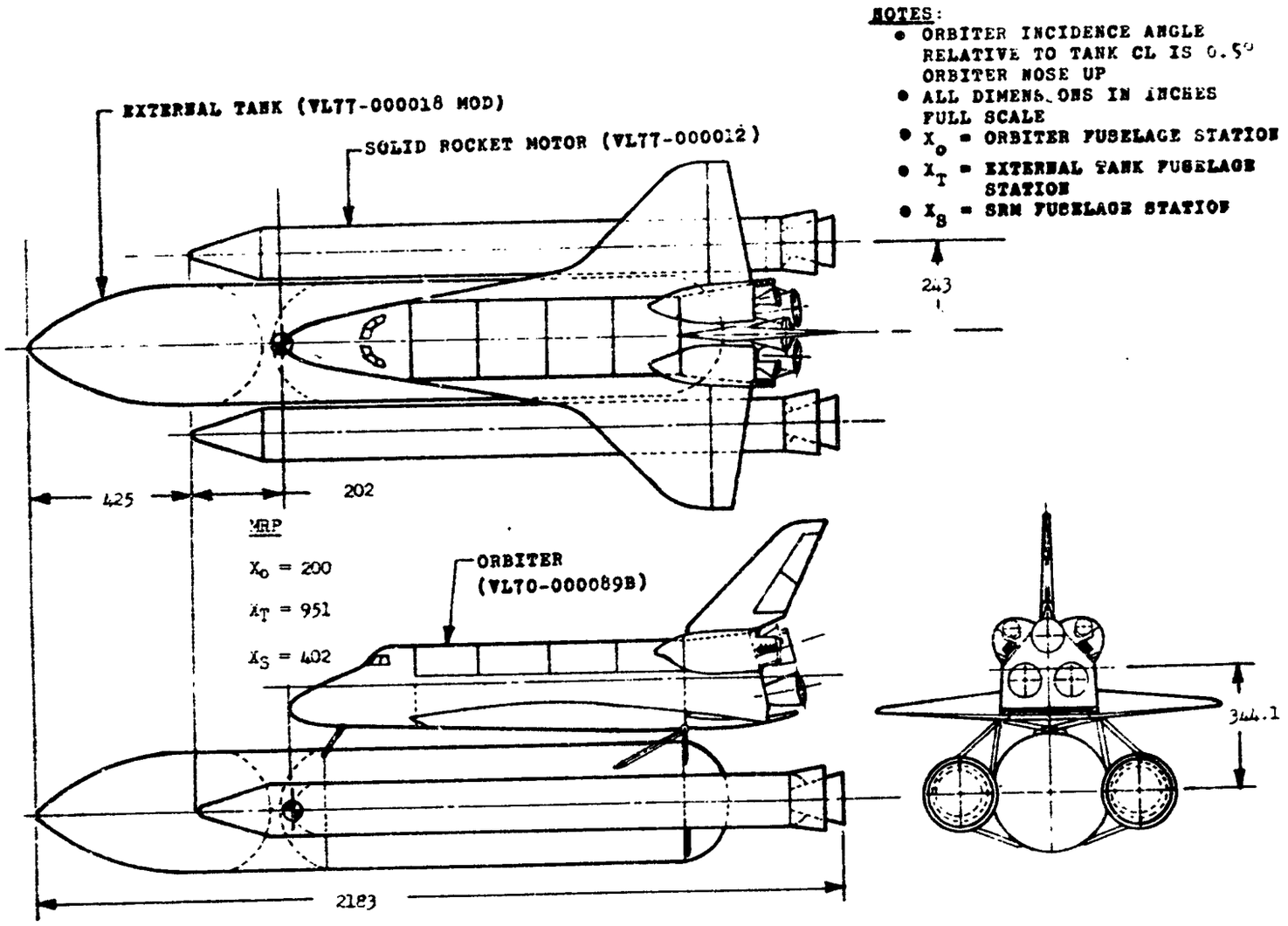
NOTE: MRP SHOWN IS FOR TEST OA12 (ORBITER ALONE TESTING)





b. SRM, S_3, and External Tank, T_9

Figure 2. - Continued.

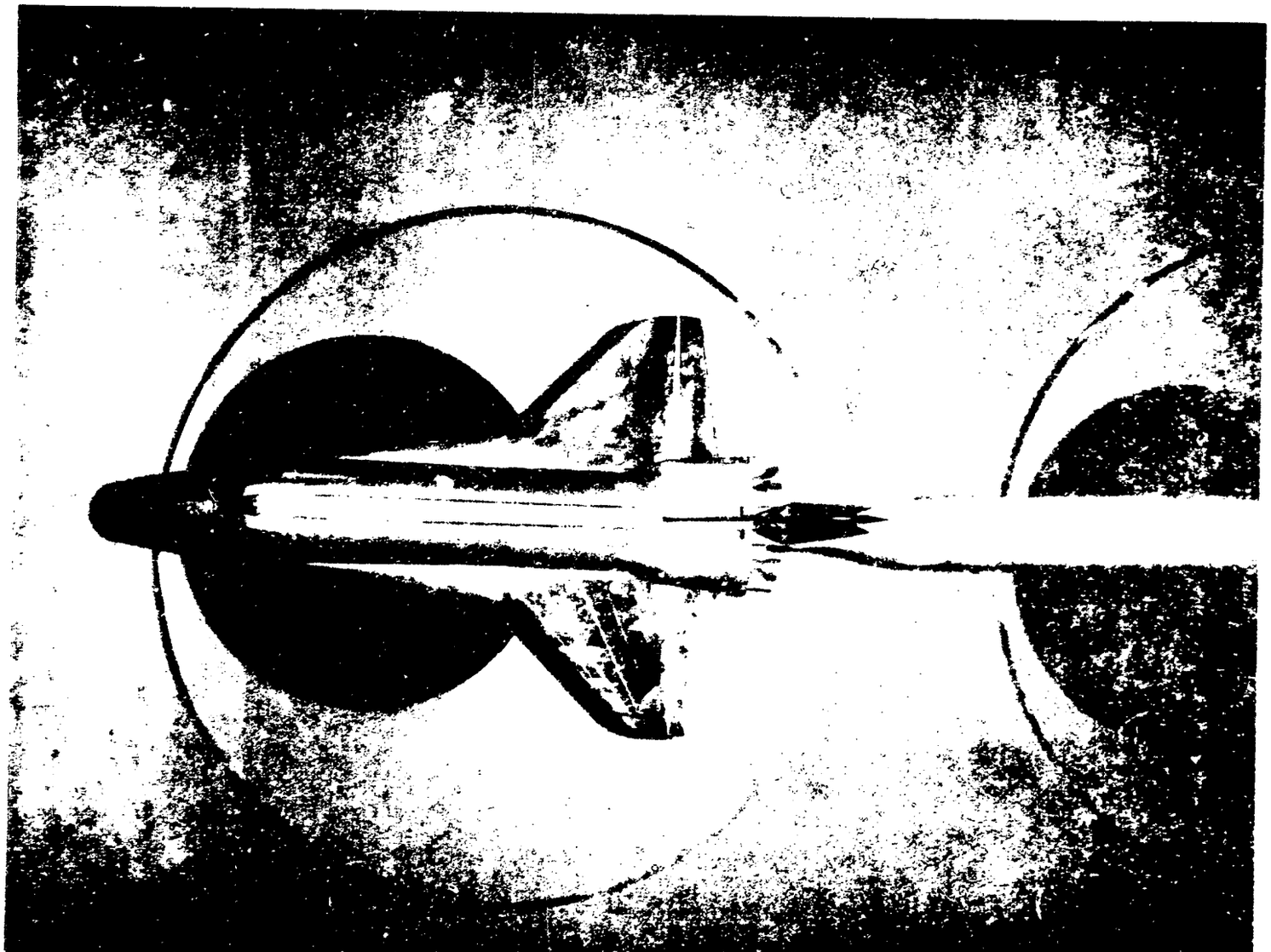


c. Integrated Vehicle

Figure 2. - Concluded.



a.



b. Isolated Orbiter (Entry Configuration) Mounted in the ARC 8x7 Ft. Tunnel
Figure 3. - Concluded

TABULATED PRESSURE DATA

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB01) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = -.090

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7060	1.0900	.4950	.0050	-.0250	-.0020			.0000	
20.0000			.5100	.0210	-.0350	-.0070			-.0020	
40.0000			.5900	.0370	.0140	-.0060			-.0100	
55.0000			.6100	.0540	.0600	.0630			.0650	
70.0000			.5940	.0690	.0590	.0810			.0860	
90.0000		1.1870	.5750	.1100	.0680	.1000			.0970	
120.0000			.5640	.1490	.1420	.1350			.1940	
142.0000										.0200
150.0000			.5640	.1930	.2150	.2600			.6870	
157.0000								.9050		
162.0000									.7440	
169.0000									.7700	
172.0000							.9770			
180.0000	1.7060	1.1710	.5010	.1920	.2450	.3060			1.1080	

MACH (1) = 2.498 ALPHA (1) = -.090

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0050	.0030	.0040	.0140	.0070	.0010				
20.0000	.0010									
40.0000	-.0120	-.0200	-.0230	-.0140	.0070	.0040	.0000		-.0070	-.0100
55.0000	.0600									
70.0000	.1020	-.0230	-.0670	-.0340	-.0120		-.0420	-.0640	-.0610	-.0200
90.0000	.0750	-.0410	-.0650	-.0590	-.0240		-.0270	-.0460	-.0060	.0050
105.0000									.0570	.0250
120.0000	.0590	-.0760	-.0680	-.0630	-.0380		-.0180	-.0200	.1770	.1270
135.0000									.3470	.3240
150.0000	-.0350	-.0850	-.0750	-.0550	-.0420		-.0270	-.0190	.1290	.2580
165.0000	-.0920	-.0980	-.0680	-.0490	-.0400		-.0300		.1320	.2350
180.0000	-.1050	-.0800	-.0700	-.0460	.0180		.0070	-.0500	1.2720	

DATE = 9 SEP 79 TABULATED PRESSURE DATA - OA12C PAGE 2

AMES 87-757 OA12 OPA ORBITER FUSELAGE (FB30011 9 16 MAY 79)

REFERENCE DATA

SREF = 2.421% SQ.FT. XMRP = 32.3946 INCHES

LREF = 30.849% INCHES YMRP = .0000 INCHES

BREF = 33.049% INCHES ZMRP = .0964 INCHES
SCALE = .13[illegible] SCALE

PARAMETRIC DATA

BETA = .[illegible] RUDDER = .[illegible]

ELEVON = .[illegible] SPOILR = 4[illegible]

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.499 ALPHA (1) = -.[illegible]

X/LB	.[illegible]	.5262	.3639	1.[illegible]15	1.0392
PHI					
.0000					
40.0000	-.0700	-.0830	-.0760		-.0340
70.[illegible]	-.0480	-.0810			-.0590
90.[illegible]	-.[illegible]120	-.[illegible]870	-.0380		
110.[illegible]	-.[illegible]010	-.[illegible]840	-.0220		
130.[illegible]			-.0340		
120.[illegible]	-.0570	-.[illegible]430		-.0350	
135.[illegible]	-.0360	-.0660	-.0080	-.0100	
150.[illegible]	-.0250	.0040	.0220		
165.1600	.1430	.1020	.0600		
			.0270		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.499 ALPHA (2) = 4.950

X/LB	.0000	.0025	.0100	.0339	.0602	.1355	.1506	.1581	.1732	.1950
PHI										
.0000	1.7050	1.2360	.6240	.0760	.0350	.0580				
20.[illegible]			.5390	.2160	.0330	.0540			.0550	
40.0000			.5990	.1120	.0820	.0620			.0550	
55.[illegible]			.6470	.1280	.0980	.0750			.0600	
70.[illegible]			.6330	.1350	.0630	.0290			.0630	
90.[illegible]		1.1910	.5680	.1040	.0650	.1190			.0940	
120.[illegible]			.4990	.1220	.0970	.1280			.0990	
142.[illegible]									.2190	
150.[illegible]			.4490	.1220	.1340	.1770				-.0020
157.[illegible]									.5200	
162.[illegible]								.7830		
169.[illegible]									.6460	
172.[illegible]									.5140	
181.[illegible]	1.7060	1.0410	.3780	.1480	.1520	.2080	.8810			
									.8200	

AMES 07-707 OA12 OBA ORBITER FUSELAGE (RBQ901) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0314 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (2) = 4.960

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0550	.0530	.0520	.0510	.0470	.0470				
25.0000	.0520									
45.0000	.0550	.0420	.0480	.0440	.0600	.0590	.0490		.0575	.0470
55.0000	.0770									
75.0000	.0830	-.0040	-.0490	-.0320	-.0310		-.0780	-.0970	-.0990	-.0640
90.0000	.1010	-.0270	-.0620	-.0520	-.0460		-.0630	-.0760	-.0340	-.0190
105.0000									.0220	.0200
125.0000	.0540	-.0730	-.0810	-.0740	-.0580		-.0450	-.0470	.1550	.1280
135.0000									.2140	.2240
150.0000	-.0630	-.0990	-.0930	-.0720	-.0500		-.0340	-.0310	.1010	.1420
165.0000	-.1110	-.1120	-.0850	-.0700	-.0510		-.0310		.1020	.1560
180.0000	-.1280	-.1080	-.0930	-.0490	.0420		.0020	-.0420	1.1640	

MACH (1) = 2.498 ALPHA (2) = 4.960

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0150		-.0940
45.0000	-.0020	-.0180			-.0660
75.0000	-.0720	-.0770	-.0790		
90.0000	-.0430	-.0600	-.0560		
105.0000	-.0430	-.0600	-.0620		
117.0000				-.0220	
120.0000	-.0440	-.0600	-.0410	-.0450	
135.0000	-.0420	-.0640	.0030		
137.0000	-.0240	-.0430	.0220		
155.0000	.0840	.0490	-.0210		

AMES 87-707 OA12 OEA ORBITER FUSELAGE (FB39P1) (16 MAY 13)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3984 INCHES

LREF = 55.8429 INCHES YMRP = .1000 INCHES

BREF = 55.8429 INCHES ZMRP = .0000 INCHES

SCALE = .191 SCALE

PARAMETRIC DATA

BETA = .0000 RUDDER = .0000

ELEVON = .0000 RUDFLP = ALL FLT

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (3) = 9.970

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1916	.2341	.2732	.3958
PHI										
.0000	1.6850	1.3670	.7700	.1470	.0950	.1250			.1200	
20.0000			.7660	.1850	.0960	.1240			.1230	
40.0000			.7900	.1960	.1430	.1260			.1190	
55.0000			.7450	.2090	.1310	.0680			.0760	
70.0000			.6530	.2240	.0590	.0840			.0950	
90.0000		1.1690	.5420	.1890	.0510	.1090			.0980	
125.0000			.4020	.0660	.0530	.1020			.0930	
142.0000										-.0220
151.0000			.3340	.0490	.0660	.1090			.4590	
157.0000								.6490		
162.0000									.4840	
169.0000									.4840	
172.0000							.7430			
180.0000	1.6850	.8930	.2630	.0620	.0730	.1240			.6670	

MACH (1) = 2.498 ALPHA (3) = 9.970

X/LB	.2259	.2711	.3209	.3953	.5129	.5973	.6626	.7380	.7869	.8283
PHI										
.0000	.1220	.1160	.1120	.1030	.0990	.1190				
20.0000	.1190									
40.0000	.0980	.0740	.0920	.0950	.1160	.1200	.1140		.1210	.1110
55.0000	.0750									
70.0000	.0760	-.0100	-.0430	-.0470	-.0580		-.1080	-.1340	-.1380	-.1270
90.0000	.0810	-.0290	-.0710	-.0660	-.0770		-.0980	-.1130	-.1220	-.0540
105.0000									-.0670	-.0120
125.0000	.0250	-.0830	-.1000	-.0990	-.1020		-.0890	-.0640	.1330	.1530
135.0000									.0970	.1420
150.0000	-.0970	-.1100	-.1160	-.0930	-.0660		-.0550	-.0630	.0610	.0920
165.0000	-.1350	-.1290	-.1020	-.0830	-.0540		-.0470		.0250	.1350
180.0000	-.1510	-.1360	-.1120	-.0610	-.0090		-.0120	-.0510	1.0460	

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBQB01) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (3) = 9.970

X/LB	.6848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0350		-.0900
40.0000	.0630	.0330			-.0850
70.0000	-.1290	-.1290	-.1240		
90.0000	-.0920	-.1030	-.0880		
105.0000	-.0940	-.0950	-.0950		
110.0000				-.0340	
120.0000	-.0620	-.1020	-.0830	-.0840	
135.0000	-.0640	-.0950	-.0430		
150.0000	-.0250	-.0310	-.0080		
165.0000	.0540	.0100	-.0330		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (4) = 14.890

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6270	1.4900	.8810	.2410	.2070	.2150			.2110	
25.0000			.9040	.2850	.2070	.2140			.2140	
40.0000			.8870	.2870	.2250	.2050			.1960	
55.0000			.6020	.2830	.1710	.0470			.0430	
70.0000			.6690	.2520	.0620	.0670			.0650	
90.0000		1.1260	.5130	.0730	.0400	.0570			.0850	
120.0000			.3180	.0190	.0120	.0620			.1190	
142.0000										-.0230
150.0000			.2350	-.1090	.0080	.0500			.3440	
157.0000								.3850		
162.0000									.3810	
169.0000									.3710	
172.0000							.4010			
180.0000	1.6270	.7500	.1610	-.0090	.0080	.0550			.5210	

AMES 97-760 OA12 OPA ORBITER FUSELAGE (RB3B01) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 33.8430 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0357 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLT = 40.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (4) = 14.890

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6625	.7380	.7869	.8223
PHI										
.0000	.2120	.2130	.2070	.1850	.1800	.1890				
25.0000	.2070									
40.0000	.1430	.1050	.1310	.1600	.1950	.2090	.1990		.2090	.2020
55.0000	.0580									
70.0000	.0200	-.0080	-.0350	-.0590	-.0760		-.1480	-.1740	-.1800	-.1800
90.0000	-.0490	-.0220	-.0710	-.0830	-.0970		-.1140	-.1310	-.1410	-.1170
105.0000									-.0260	-.0490
120.0000	.0270	-.0910	-.1140	-.1310	-.1470		-.1070	-.0940	.1170	.1260
135.0000									.1120	.0402
150.0000	-.1020	-.1120	-.1270	-.1090	-.0960		-.1240	-.1210	.0110	-.0120
165.0000	-.1450	-.1190	-.1070	-.0870	-.0740		-.0700		-.0410	.0920
180.0000	-.1590	-.1420	-.1010	-.0650	-.0200		-.0220	-.0580	.9550	

MACH (1) = 2.498 ALPHA (4) = 14.890

X/LB	.8848	.9252	.9639	1.0015	1.0392
PHI					
.0000			.1180		-.1170
40.0000	.1560	.1200			-.0960
70.0000	-.1950	-.1970	-.1770		
90.0000	-.1550	-.1570	-.1420		
105.0000	-.1540	-.1360	-.1410		
110.0000				-.0540	
120.0000	-.1030	-.1330	-.1200	-.1150	
135.0000	-.1070	-.1310	-.0950		
150.0000	-.0820	-.0960	-.0750		
165.0000	.0310	-.0150	-.0520		



AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB01) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (5) = 19.870

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5450	1.5790	.9870	.3520	.3290	.3270			.3250	
20.0000			1.0320	.4020	.3290	.3270			.3280	
40.0000			.9760	.4040	.3130	.2960			.2810	
55.0000			.8470	.4040	.2110	.0330			.0160	
70.0000			.6780	.2640	.0640	.0590			.0590	
90.0000		1.0710	.4770	.0650	.0330	.0580			.0550	
120.0000			.2430	-.0210	-.0180	.0450			.0640	
142.0000										-.0490
150.0000			.1480	-.0590	-.0110	.0420			.2650	
157.0000								.2360		
162.0000									.2550	
169.0000									.2430	
172.0000							.1970			
180.0000	1.5450	.6120	.0830	-.0630	-.0170	.0490			.3790	

MACH (1) = 2.498 ALPHA (5) = 19.870

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8263
PHI										
.0000	.3320	.3210	.3130	.2950	.2840	.2940				
20.0000	.3230									
40.0000	.2030	.1420	.1760	.2400	.2960	.3130	.3040		.3170	.3130
55.0000	.0040									
70.0000	.0530	-.0290	-.0500	-.0560	-.1400		-.1660	-.1890	-.1890	-.1890
90.0000	.0610	-.0430	-.0850	-.0850	-.0980		-.1480	-.1960	-.2020	-.2040
105.0000									-.1040	-.1280
120.0000	-.0030	-.1330	-.1460	-.1640	-.1490		-.1170	-.1170	.1850	.0730
135.0000									.0570	.0260
150.0000	-.1280	-.1470	-.1460	-.1380	-.1740		-.1320	-.1110	.0070	.0390
165.0000	-.1510	-.1310	-.1200	-.1020	-.0940		-.1350		-.0860	-.0010
180.0000	-.1740	-.1590	-.1030	-.0730	-.0280		-.0410	-.0650	.0680	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBGB01) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8430 INCHES YMRP = .0000 INCHES

BREF = 39.8430 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLP = 30.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (5) = 19.870

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2270		-.1350
40.0000	.2730	.2280			-.1080
70.0000	-.1830	-.1870	-.1800		
90.0000	-.2070	-.1920	-.1650		
105.0000	-.2060	-.1820	-.1650		
110.0000				-.0920	
120.0000	-.1500	-.1610	-.1420	-.1360	
135.0000	-.1490	-.1570	-.1260		
150.0000	-.1260	-.1250	-.1030		
165.0000	-.0410	-.0720	-.1020		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (1) = -.020

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7450	1.1020	.4810	.0680	.0150	.0080			.0030	
20.0000			.5180	.0750	.0080	.0050			.0030	
40.0000			.6050	.0750	.0410	.0100			.0030	
55.0000			.6250	.0850	.0810	.0580			.0610	
70.0000			.6090	.0960	.0800	.0710			.0720	
90.0000		1.2050	.5900	.1350	.0880	.0910			.0650	
120.0000			.5710	.1780	.1450	.1430			.1700	
142.0000										.0890
150.0000			.5680	.2120	.1990	.2230			.6660	
157.0000								.8990		
162.0000									.8310	
169.0000									.8590	
172.0000							.9630			
180.0000	1.7460	1.1890	.5110	.2390	.2230	.2570			1.1250	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQ801) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (1) = -.020

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0060	.0100	.0090	.0010	.0040	.0420				
20.0000	.0010									
40.0000	-.0040	-.0070	-.0100	-.0140	-.0010	-.0010	-.0030		-.0040	.0410
55.0000	.0470									
75.0000	.0780	.0180	-.0180	-.0120	-.0020		-.0260	.0280	-.0420	-.0230
90.0000	.0640	.0010	-.0200	-.0300	-.0130		-.0200	-.0310	-.0230	-.0070
105.0000									.0370	.0200
120.0000	.0790	-.0150	-.0310	-.0310	-.0360		-.0180	-.0170	.1260	.0870
135.0000									.2310	.2730
150.0000	.0240	-.0170	-.0310	-.0370	-.0330		-.0220	-.0170	.0750	.1720
165.0000	-.0070	-.0260	-.0310	-.0360	-.0310		-.0230		.0570	.1450
180.0000	-.0230	-.0200	-.0310	4.6090	5.1480		5.0550	1.5680	6.2170	

MACH (2) = 3.502 ALPHA (1) = -.020

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0250		-.0590
40.0000	-.0190	-.0270			-.0260
70.0000	-.0160	-.0200	-.0190		
90.0000	.0100	.0070	.0010		
105.0000	.0090	.0040	-.0010		
110.0000				.0230	
120.0000	.0100	-.0100	-.0080	.0160	
135.0000	.0100	-.0080	-.0040		
150.0000	.0070	.0110	.0330		
165.0000	.1160	.0990	.0430		

AMES 87-707 OA12 C2A ORBITER FUSELAGE (RBQB01) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (2) = 5.170

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7530	1.2560	.6140	.1210	.0760	.0550				
20.0000			.6510	.1370	.0660	.0510			.0480	
40.0000			.7140	.1370	.0970	.0590			.0490	
55.0000			.7040	.1520	.1130	.0630			.0520	
70.0000			.6490	.1560	.0840	.0720			.0750	
90.0000		1.2100	.5750	.1430	.0820	.0870			.0850	
125.0000			.4960	.1420	.1100	.1170			.0820	
142.0000									.0980	
150.0000			.4560	.1420	.1350	.1550				.0460
1? .0000									.4880	
-(.0000								.6980		
169.0000									.6150	
172.0000									.6370	
180.0000	1.7530	1.0520	.3920	.1570	.1490	.1690	.7350		.8510	

MACH (2) = 3.502 ALPHA (2) = 5.170

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6526	.7380	.7869	.8283
PHI										
.0000	.0440	.0370	.0330	.0360	.0360	.0610				
20.0000	.0420									
40.0000	.0460	.0300	.0310	.0330	.0440	.0450	.0430		.0360	.0670
55.0000	.0600									
70.0000	.0570	.0080	-.0210	-.0160	-.0180		-.0440	.0140	-.0590	-.0480
90.0000	.0680	.0010	-.0300	-.0270	-.0240		-.0420	-.0520	-.0440	-.0250
105.0000									-.0010	-.0020
120.0000	.0460	-.0290	-.0390	-.0390	-.0380		-.0410	-.0400	.0970	.0930
135.0000									.1350	.1460
150.0000	-.0150	-.0430	-.0490	-.0460	-.0390		-.0350	-.0320	.0340	.0860
165.0000	-.0370	-.0530	-.0490	-.0440	-.0400		-.0340		.0250	.0810
180.0000	-.0560	-.0540	-.0460	2.9580	3.6530		3.4970	1.1250	5.4620	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0801) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (2) = 5.170

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0450		-.0660
40.0000	-.0290	-.0460			-.0350
70.0000	-.0770	-.0850	-.0350		
90.0000	-.0610	-.0640	-.0180		
105.0000	-.0530	-.0540	-.0150		
110.0000				.0000	
120.0000	-.0530	-.0590	-.0060	-.0110	
135.0000	-.0540	-.0810	-.0180		
150.0000	-.0700	-.0590	.0110		
165.0000	.0180	.0000	.0040		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (3) = 10.130

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7280	1.3970	.7510	.1860	.0910	.1040			.0970	
25.0000			.7800	.2160	.1180	.1020			.0990	
40.0000			.8120	.2150	.1450	.1110			.1050	
55.0000			.7670	.2200	.1400	.0630			.0590	
70.0000			.6730	.2170	.0870	.0630			.0750	
90.0000		1.1930	.5570	.1310	.0740	.0700			.0830	
120.0000			.4140	.1070	.0730	.0980			.0630	
142.0000										.0180
150.0000			.3510	.0910	.0780	.1000			.3590	
157.0000								.5470		
162.0000									.4420	
169.0000									.4680	
172.0000							.5510			
180.0000	1.7280	.9080	.2870	.0920	.0830	.1040			.6470	

AMES 07-707 OA12 O2A ORBITER FUSELAGE (RB0B01) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (3) = 10.130

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0970	.0990	.0960	.0880	.0880	.0980				
20.0000	.0980									
40.0000	.0860	.0690	.0790	.0800	.0980	.1040	.1030		.0950	.1070
55.0000	.0620									
70.0000	.0670	.0060	-.0160	-.0270	-.0320		-.0560	.0010	-.0720	-.0710
90.0000	.0630	-.0010	-.0270	-.0370	-.0450		-.0600	-.0670	-.0660	-.0390
105.0000									-.0300	-.0160
120.0000	.0250	-.0340	-.0460	-.0530	-.0620		-.0670	-.0660	.1100	.1120
135.0000									.0490	.0840
150.0000	-.0350	-.0520	-.0590	-.0590	-.0510		-.0520	-.0540	.0110	.0190
165.0000	-.0520	-.0590	-.0590	-.0540	-.0460		-.0450		-.0140	.0310
180.0000	-.0680	-.0630	-.0620	2.2240	2.9010		2.7390	.8710	5.0120	

MACH (2) = 3.502 ALPHA (3) = 10.130

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0330		-.0750
40.0000	.0660	.0430			-.0470
70.0000	-.0550	-.0640	-.0560		
90.0000	-.0450	-.0460	-.0410		
105.0000	-.0470	-.0230	-.0340		
110.0000				-.0180	
120.0000	-.0250	-.0280	-.0330	-.0380	
135.0000	-.0280	-.0500	-.0310		
150.0000	-.0400	-.0300	-.0170		
165.0000	.0210	.0070	-.0170		

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB01) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (4) = 15.050

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6700	1.5190	.8950	.2720	.1950	.1760			.1730	
20.0000			.9170	.3060	.2000	.1790			.1780	
40.0000			.9090	.3050	.2170	.1810			.1740	
55.0000			.8230	.3130	.1730	.0540			.0450	
70.0000			.6910	.2970	.0870	.0610			.0580	
90.0000		1.1550	.5290	.1200	.0660	.0520			.0610	
125.0000			.3400	.0690	.0420	.0610			.0610	
142.0000										-.0050
150.0000			.2620	.0420	.0320	.0610			.2560	
157.0000								.2700		
162.0000									.3310	
169.0000									.3390	
172.0000							.1400			
180.0000	1.6700	.7630	.2010	.0380	.0350	.0600			.4690	

MACH (2) = 3.502 ALPHA (4) = 15.050

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1780	.1810	.1790	.1750	.1700	.1730				
20.0000	.1780									
40.0000	.1400	.1030	.1190	.1470	.1830	.1930	.1930		.1770	.1770
55.0000	.0460									
70.0000	.0540	-.0030	-.0230	-.0280	-.0410		-.0680	-.0090	-.0870	-.0860
90.0000	.0560	-.0140	-.0410	-.0440	-.0520		-.0630	-.0680	-.0740	-.0650
105.0000									-.0420	-.0180
120.0000	.0240	-.0530	-.0610	-.0700	-.0820		-.0740	-.0750	.1350	.0990
135.0000									.0190	.0280
150.0000	-.0560	-.0670	-.0670	-.0690	-.0790		-.0840	-.0770	-.0270	-.0160
165.0000	-.0720	-.0710	-.0640	-.0560	-.0590		-.0620		-.0460	.0060
180.0000	-.0820	-.0800	-.0600	1.6970	2.2820		2.1290	.6750	4.5670	

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBQB01) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8430 INCHES YMRP = .0000 INCHES

BREF = 39.8430 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (4) = 15.050

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0720		-.0820
45.0000	.1210	.0890			-.0580
70.0000	-.1070	-.1120	-.0750		
90.0000	-.0910	-.0990	-.0660		
105.0000	-.0910	-.0730	-.0620		
115.0000				-.0400	
125.0000	-.0490	-.0740	-.0550	-.0580	
135.0000	-.0560	-.0920	-.0520		
150.0000	-.0890	-.0850	-.0540		
165.0000	-.0360	-.0300	-.0440		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (5) = 20.020

X/LB	.0000	.0075	.0168	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5870	1.6170	1.0440	.3720	.2920	.2820			.2810	
20.0000			1.0520	.4130	.2970	.2820			.2870	
40.0000			.9970	.4120	.2940	.2700			.2650	
55.0000			.8690	.4070	.2110	.0600			.0240	
70.0000			.6950	.3010	.0920	.0570			.0520	
90.0000		1.0940	.4920	.1100	.0620	.0390			.0370	
120.0000			.2710	.0370	.0170	.0300			.0450	
142.0000										-.0180
150.0000			.1830	.0010	.0060	.0290			.1750	
157.0000								.0930		
162.0000									.2270	
169.0000									.2270	
172.0000							.0410			
180.0000	1.5870	.6270	.1290	-.0080	.0130	.0200			.3120	

AMES 87-707 OA12 OEA ORBITER FUSELAGE (RBQB01) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1/OA-BITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (5) = 21.020

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2940	.3080	.3040	.2900	.2790	.2750				
20.0000	.2920									
40.0000	.2160	.1660	.1940	.2080	.2850	.3000	.3030		.2770	.2730
55.0000	.0270									
70.0000	.0470	.0010	-.0200	-.0290	-.0680		-.0710	-.0190	-.0850	-.0820
90.0000	.0490	-.0140	-.0350	-.0450	-.0500		-.0760	-.0950	-.0960	-.1010
105.0000									-.0650	-.0470
120.0000	.1810	-.0640	-.0810	-.0540	-.0280		-.0750	-.0700	.1860	.0760
135.0000									.0170	.0170
150.0000	-.0560	-.0720	-.0790	-.0850	-.0240		-.0830	-.0790	-.0400	-.0030
165.0000	-.0710	-.0680	-.0700	-.0670	-.0780		-.1010		-.0640	-.0300
180.0000	-.0810	-.0780	-.0690	1.2290	1.7960		1.6560	.5220	4.1650	

MACH (2) = 3.502 ALPHA (5) = 20.020

X/LB	.9848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1610		-.0840
40.0000	.2230	.1820			-.0630
70.0000	-.1060	-.1000	-.0780		
90.0000	-.1180	-.1180	-.0820		
105.0000	-.1150	-.1040	-.0840		
110.0000				-.0690	
120.0000	-.0770	-.0920	-.0740	-.0720	
135.0000	-.0750	-.1050	-.0750		
150.0000	-.1.960	-.0990	-.0670		
165.0000	-.0710	-.0810	-.0730		

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RB0802) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .4000 INCHES

SCALE = .0100 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -3.300

X/LB	.0000	.0075	.0108	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7080	1.0930	.4770	.1080	-.0230	.0020			.1020	
20.0000			.5300	.0360	-.0220	-.0030			-.0030	
40.0000			.6470	.0410	.0460	.0020			-.0130	
55.0000			.6910	.0730	.1130	.1100			.1170	
75.0000			.6890	.1060	.1170	.1340			.1390	
90.0000		1.2770	.6760	.1710	.1300	.1610			.1640	
125.0000			.6450	.1730	.1970	.2310			.3090	
142.0000										.0710
150.0000			.6160	.2250	.2450	.3040			.7840	
157.0000								.9550		
162.0000									.8070	
169.0000									.7820	
172.0000							.9710			
180.0000	1.7080	1.1660	.5070	.2240	.2450	.3230			1.0180	

MACH (1) = 2.498 BETA (1) = -3.300

X/LB	.2259	.2711	.3230	.3953	.5120	.5873	.6626	.7390	.7869	.8283
PHI										
.0000	.0090	.0150	.0140	.0150	.0110	.0040				
20.0000	.0000									
40.0000	-.0170	-.0[illegible]	-.0350	-.0270	.0070	.0080	.0020		-.0140	-.0240
55.0000	.1090									
75.0000	.1580	.0280	-.0290	.0080	.0270		-.0220	-.0510	-.0440	.0060
90.0000	.1470	.0070	-.0250	-.0220	.0080		-.0090	-.0340	-.0040	.0390
105.0000									.0780	.0760
125.0000	.1240	-.0330	-.0310	-.0310	-.0190		-.0060	-.0160	.3130	.1970
135.0000									.3660	.3210
150.0000	.0090	-.0490	-.0440	-.0360	-.0300		-.0150	-.0120	.0970	.1850
165.0000	-.0620	-.0550	-.0370	-.0350	-.0330		-.0150		.1050	.2250
180.0000	-.0870	-.0760	-.0570	-.0680	-.0510		-.0610	-.0640	.4030	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB02) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -3.300

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0550		-.1150
40.0000	-.0390	-.0690			-.0640
70.0000	.0100	-.0230	-.0080		
90.0000	.0490	.0230	.0090		
105.0000	.0490	.0290	.0030		
110.0000				-.0060	
120.0000	.0520	.0230	.0250	.0080	
135.0000	-.0300	-.0230	.0100		
150.0000	-.0510	.0090	.0740		
165.0000	.1590	.1460	.0500		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = 3.060

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7010	1.0910	.4760	.0070	-.0190	-.0010			.0030	
20.0000			.4940	.0180	-.0330	-.0020			.0060	
40.0000			.5460	.0390	-.0030	-.0040			.0020	
55.0000			.5480	.0460	.0220	.0350			.0360	
70.0000			.5140	.0530	.0190	.0530			.0440	
90.0000		1.1020	.4970	.0690	.0250	.0610			.1090	
120.0000			.4990	.1300	.1040	.0950			.1150	
142.0000										-.0090
150.0000			.5240	.1790	.1930	.2350			.6100	
157.0000								.8540		
162.0000									.7230	
169.0000									7740	
172.0000							.9750			
180.0000	1.7010	1.1740	.5020	.2450	.2500	.3080			1.0070	

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RB3B02) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8430 INCHES YMRP = .0000 INCHES

BREF = 39.8430 INCHES ZMRP = .0000 INCHES

SCALE = .0375 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = .000 BODFLP = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = 3.060

X/LB	.2259	.2711	.3260	.3953	.5120	.5873	.6626	.7380	.7769	.8283
PHI										
.0000	.0490	.0130	.0130	.0180	.0100	.0040				
20.0000	.0090									
40.0000	.0000	-.0680	.0040	-.0460	.0080	.0120	.0110		.0110	.0120
55.0000	.0470									
70.0000	.0750	-.0320	-.0760	-.0480	-.0290		-.0380	-.1620	-.0550	-.0290
90.0000	.0960	-.0570	-.0780	-.0750	-.0370		-.0230	-.0400	.0120	.0030
105.0000									.0340	.0140
120.0000	.0180	-.0690	-.0820	-.0770	-.0500		-.0180	-.0220	.1270	.0180
135.0000									.4790	.3310
150.0000	-.0510	-.1010	-.0830	-.0620	-.0470		-.0320	-.0220	.1650	.4230
165.0000	-.0990	-.1020	-.0730	-.0480	-.0460		-.0480		.0310	.3220
180.0000	-.0910	-.0710	-.0600	-.0620	-.0330		-.0540	-.0530	.3640	

MACH (1) = 2.498 BETA (2) = 3.060

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0650		-.1130
40.0000	-.0470	-.0620			-.0610
70.0000	-.0460	-.0570	-.0430		
90.0000	-.0450	-.0590	-.0410		
105.0000	-.0420	-.0580	-.0450		
120.0000				-.0070	
135.0000	-.0830	-.0590	-.0110	-.0160	
150.0000	-.0840	-.0580	-.0120		
165.0000	-.0110	.0130	.0250		
180.0000	.1550	.0650	.0320		

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBQB02) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -3.410

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7430	1.0960	.5070	.0650	.0280	.0090			.0030	
20.0000			.5410	.0820	.0160	.0070			.0010	
40.0000			.6600	.0820	.0560	.0160			.0050	
55.0000			.7000	.1040	.1200	.0940			.0970	
70.0000			.6970	.1270	.1280	.1100			.1170	
90.0000		1.2980	.6820	.1900	.1300	.1330			.1030	
125.0000			.6480	.2250	.1870	.1930			.2470	
142.0000										.1230
150.0000			.6150	.2460	.2230	.2560			.7490	
157.0000								.9180		
162.0000									.8860	
169.0000									.8760	
172.0000							.9150			
180.0000	1.7430	1.1810	.5110	.2460	.2220	.2520			1.1340	

MACH (2) = 3.502 BETA (1) = -3.410

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0060	.0030	.0010	.0010	-.0020	-.0010				
20.0000	-.0030									
40.0000	-.0030	-.0130	-.0210	-.0260	-.0070	-.0040	-.0060		-.0120	.0060
55.0000	.0810									
70.0000	.1170	.0430	.0000	.0150	.0240		-.0050	-.0230	-.0300	-.0120
90.0000	.1230	.0270	-.0010	-.0090	.0140		-.0010	-.0170	-.0120	.0140
105.0000									.0440	.0430
120.0000	.1170	.0040	-.0120	-.0070	-.0160		-.0050	-.0130	.2440	.1900
135.0000									.2670	.2960
150.0000	.0350	.0000	-.0140	-.0240	-.0220		-.0150	-.0140	.0530	.1360
165.0000	.0050	-.0190	-.0120	-.0240	-.0230		-.0180		.0520	.1260
180.0000	-.0220	-.0340	-.0330	.0350	.1140		.0970	.0190	1.4350	

AMES 87-7U7 OA12 O2A ORBITER FUSELAGE (R03B02) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. YMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -3.410

X/LB	.8948	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0550		-.0370
40.0000	-.0570	-.0640			-.0310
75.0000	-.0120	-.0190	.0020		
90.0000	.0130	.0130	.0340		
105.0000	.0130	.0230	.0360		
110.0000				.0320	
120.0000	.0130	-.0120	.0370	.0460	
135.0000	.0110	-.0380	.0000		
150.0000	-.0430	-.0340	.0160		
165.0000	.0900	.0940	.0650		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = 3.190

X/LB	.0030	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7450	1.0920	.4960	.0630	.0290	.0070			.0020	
20.0000			.4940	.0630	.0280	.0040			.0010	
40.0000			.5520	.0630	.0230	.0040			.0040	
55.0000			.5540	.0700	.0500	.0340			.0300	
70.0000			.5200	.0790	.0440	.0470			.0420	
90.0000		1.1040	.5010	.0780	.0500	.0600			.0250	
120.0000			.4970	.1180	.1110	.1070			.0870	
142.0000										.0530
150.0000			.5230	.1750	.1780	.2030			.5700	
157.0000								.8430		
162.0000									.8060	
169.0000									.8590	
172.0000							.9030			
180.0000	1.7450	1.1910	.5090	.2240	.2240	.2530			1.1150	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB02) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = 3.190

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0030	.0030	.0030	.0010	.0000	-.0030				
20.0000	.0010									
40.0000	-.0110	-.0100	-.0050	-.0090	-.0020	-.0020	-.0030		-.0060	.0090
55.0000	.0180									
70.0000	.0490	-.0140	-.0390	-.0270	-.0170		-.0360	-.0430	-.0530	-.0410
90.0000	.0330	-.0290	-.0420	-.0440	-.0300		-.0270	-.0360	-.0220	-.0110
105.0000									.0070	-.0130
120.0000	.0370	-.0430	-.0480	-.0500	-.0460		-.0270	-.0240	.0470	-.0100
135.0000									.3790	.2620
150.0000	.0050	-.0430	-.0460	-.0460	-.0410		-.0330	-.0290	.0870	.2920
165.0000	-.0340	-.0450	-.0360	-.0370	-.0360		-.0390		-.0160	.1410
180.0000	-.0260	-.0330	-.0320	.0310	.1040		.0870	.0160	1.3780	

MACH (2) = 3.502 BETA (2) = 3.190

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0550		-.0220
40.0000	-.0410	-.0450			-.0300
70.0000	-.0460	-.0430	-.0250		
90.0000	-.0340	-.0450	-.0210		
105.0000	-.0330	-.0470	-.0230		
110.0000				.0200	
120.0000	-.0580	-.0650	-.0300	-.0200	
135.0000	-.0610	-.0440	-.0100		
150.0000	-.0040	-.0140	.0190		
165.0000	.0980	.0340	.0380		

AMES 87-707 OA12 OBA ORBITER FUSELAGE (FB0803) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 38.8490 INCHES YMRP = .0000 INCHES

BREF = 38.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.0000 RUDDER = .0000

ELEVON = .0000 RUDFLP = 40.0000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LB	.0000	.0075	.0183	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6610	1.3570	.7450	.1490	.1160	.1260			.1220	
20.0000			.8170	.2150	.1340	.1320			.1340	
40.0000			.9140	.2450	.2260	.1680			.1620	
55.0000			.9100	.2810	.2480	.1820			.1760	
70.0000			.8480	.2860	.1780	.1780			.1770	
90.0000		1.3350	.7260	.2500	.1620	.1700			.2030	
125.0000			.5330	.1540	.1370	.1980			.2630	
142.8490										.0580
150.0000			.4070	.0930	.0990	.1740			.5700	
157.0000								.6860		
162.0000									.5640	
169.0000									.4870	
172.0000							.6170			
180.0000	1.6610	.8750	.2600	.0640	.0710	.1150			.6430	

MACH (1) = 2.498 BETA (1) = -6.520

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1240	.1210	.1130	.1140	.1010	.1050				
20.0000	.1290									
40.0000	.1600	.1370	.1450	.1330	.1520	.1510	.1310		.1310	.1130
55.0000	.1790									
70.0000	.1630	.0530	.0290	.0210	.0200		-.0440	-.0760	-.0770	-.0930
90.0000	.1780	.0410	-.0180	-.0210	-.0160		-.0390	-.0650	-.0670	.0120
105.0000									.0060	.0720
125.0000	.0840	-.0340	-.0570	-.0780	-.0950		-.1140	-.1190	.4250	.2630
135.0000									.0480	.0220
150.0000	-.0620	-.0830	-.0780	-.0700	-.0710		-.0885	-.0920	-.0230	-.1510
165.0000	-.0970	-.0650	-.0610	-.0590	-.0660		-.0720		-.0270	.0450
181.0000	-.1440	-.1460	-.1340	-.0770	-.0640		-.0690	-.0770	.4320	

AMES 87-757 OA12 02A ORBITER FUSELAGE (RBQ903) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .3000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0430		-.1350
40.0000	.0730	.0440			-.0940
70.0000	-.0360	-.0500	-.0520		
90.0000	-.0170	-.0210	-.0270		
105.0000	.0350	-.0170	-.0460		
110.0000				-.0520	
120.0000	.0370	-.0290	-.0390	-.0480	
135.0000	-.1210	-.1380	-.1040		
150.0000	-.1420	-.1540	-.1320		
155.0000	-.0040	-.0110	-.0410		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6840	1.3670	.7460	.1510	.1120	.1280			.1240	
20.0000			.7980	.2010	.1230	.1290			.1310	
40.0000			.8570	.2110	.1870	.1490			.1480	
55.0000			.8290	.2400	.1890	.1240			.1220	
70.0000			.7540	.2400	.1150	.1240			.1430	
90.0000		1.2580	.6360	.1500	.1040	.1390			.1510	
120.0000			.4720	.1110	.0920	.1550			.1730	
142.0000										.0190
150.0000			.3750	.0730	.0830	.1470			.5260	
157.0000								.6520		
162.0000									.5260	
169.0000									.4870	
172.0000							.6090			
180.0000	1.6840	.8920	.2640	.0640	.0740	.1170			.6630	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB03) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.6490 INCHES YMRP = .0000 INCHES

BREF = 39.0490 INCHES ZMRP = .0000 INCHES

SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	.3259	2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1240	.1240	.1180	.1030	.1030	.1030				
20.0000	.1280									
40.0000	.1340	.1160	.1290	.1200	.1360	.1370	.1240		.1290	.1160
55.0000	.1300									
70.0000	.1290	.0520	-.0040	-.0190	-.0180		-.0740	-.1070	-.1070	-.1180
90.0000	.1380	.0100	-.0410	-.0440	-.0480		-.0720	-.0920	-.0940	-.0230
105.0000									-.0060	.0310
120.0000	.0590	-.0510	-.0750	-.0920	-.0950		-.1170	-.1190	.3260	.2020
135.0000									.1250	.1190
150.0000	-.0720	-.0810	-.0950	-.0850	-.0780		-.0720	-.0710	.0240	.0120
165.0000	-.1070	-.0870	-.0810	-.0750	-.0690		-.0610		.0160	.0650
180.0000	-.1410	-.1280	-.1090	-.0840	-.0630		-.0720	-.0770	.4750	

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	.8848	.9262	.9639	1.0015	*.0392
PHI					
.0000			-.0040		-.1340
40.0000	.0250	-.0950			-.0890
70.0000	-.1200	-.1250	-.0870		
90.0000	-.1090	-.1100	-.0560		
105.0000	-.0340	-.1040	-.0730		
110.0000				-.0560	
120.0000	-.0760	-.1150	-.0840	-.0750	
135.0000	-.1630	-.1710	-.0800		
150.0000	-.1640	-.1570	-.0390		
165.0000	-.0450	-.0530	-.0490		

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB03) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = .000 RUDFLK = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = 3.020

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6060	1.3680	.7400	.1510	.1100	.1270			.1170	
20.0000			.7380	.1730	.1070	.1220			.1180	
40.0000			.7300	.1720	.1170	.1040			.0950	
55.0000			.6750	.1780	.0870	.0200			.0380	
70.0000			.5680	.1780	.0190	.0160			.0520	
90.0000		1.0820	.4610	.0460	.0110	.0620			.0400	
120.0000			.3390	.0350	.0190	.0600			.1450	
142.0000										-.0570
150.0000			.3040	.0320	.0470	.1030			.3970	
157.0000								.6430		
162.0000									.4690	
169.0000									.4890	
172.0000							.6490			
180.0000	1.6860	.8990	.2630	.0580	.0760	.1170			.6640	

MACH (1) = 2.498 BETA (3) = 3.020

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1190	.1230	.1150	.1040	.0990	.1000				
20.0000	.1110									
40.0000	.0630	.0360	.0580	.0710	.0960	.1080	.1010		.1170	.1140
55.0000	.0280									
70.0000	.0440	-.0290	-.0560	-.0690	-.0840		-.1290	-.1500	-.1470	-.1230
90.0000	.0520	-.0480	-.0800	-.0790	-.0970		-.0970	-.1040	-.0600	-.0820
105.0000									-.0220	-.0480
120.0000	.0050	-.0980	-.1080	-.1040	-.0840		-.0660	-.0670	.0540	.0840
135.0000									.1650	.1500
150.0000	-.1070	-.1310	-.1220	-.0840	-.0550		-.0500	-.0490	.0940	.1650
165.0000	-.1460	-.1430	-.1140	-.0760	-.0550		-.0500		.0380	.1810
180.0000	-.1460	-.1350	-.1120	-.0840	-.0630		-.0760	-.0810	.5110	

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBQB03) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = .000 RUDDER = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = 3.020

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0420		-.1340
40.0000	.0770	.0480			-.0920
70.0000	-.1230	-.1480	-.1470		
90.0000	-.1070	-.1170	-.1070		
105.0000	-.0790	-.1030	-.1090		
120.0000				-.0580	
125.0000	-.0680	-.0380	-.0840	-.0830	
135.0000	-.0690	-.0610	-.1290		
150.0000	-.0410	-.0180	-.1090		
165.0000	.0920	.0430	-.0310		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 6.200

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6610	1.3510	.7260	.1450	.1100	.1240			.1190	
20.0000			.7030	.1560	.0970	.1130			.1090	
40.0000			.6650	.1550	.0790	.0790			.1610	
55.0000			.5920	.1550	.0390	-.0200			-.0100	
70.0000			.4820	.1360	-.0250	.0060			.0120	
90.0000		.9920	.3790	-.0010	-.0300	.0190			.0120	
120.0000			.2810	-.0030	-.0130	.0230			.0680	
142.0000										-.0850
150.0000			.2640	.0130	.0260	.0600			.3180	
157.0000								.4770		
162.0000									.4520	
169.0000									.4750	
172.0000							.5560			
180.0000	1.6510	.8940	.2530	.0560	.0670	.0880			.6350	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQBD3) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 6.200

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1220	.1220	.1170	.1110	.1010	.0980				
20.0000	.1060									
40.0000	.0180	-.0120	.0080	.0320	.0840	.0980	.0980		.1040	.1070
55.0000	-.0160									
70.0000	.0290	-.0390	-.0700	-.0870	-.0980		-.1330	-.1490	-.1470	-.1370
90.0000	.0390	-.0660	-.0950	-.0930	-.1040		-.0960	-.1110	-.0900	-.1040
105.0000									-.0420	-.0570
120.0000	-.0220	-.1150	-.1170	-.1090	-.0720		-.0720	-.0770	.0310	.0410
135.0000									.2940	.2000
150.0000	-.1220	-.1550	-.1280	-.0850	-.0590		-.0560	-.0600	.0720	.1750
165.0000	-.1630	-.1560	-.1290	-.0900	-.0690		-.0580		.0290	.1620
180.0000	-.1430	-.1460	-.1460	-.0920	-.0670		-.0800	-.0870	.5540	

MACH (1) = 2.498 BETA (4) = 6.200

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0450		-.1380
40.0000	.0840	.0580			-.0960
70.0000	-.1370	-.1220	-.1540		
90.0000	-.1270	-.1170	-.1230		
105.0000	-.1270	-.1120	-.1210		
110.0000				-.0660	
120.0000	-.0800	-.0970	-.0930	-.0970	
135.0000	-.0820	-.0640	-.0560		
150.0000	-.0810	-.0640	-.0260		
165.0000	.0090	.0090	-.0240		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB03) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.740

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6720	1.3450	.7340	.1780	.1140	.1010			.0910	
20.0000			.8040	.2310	.1310	.1070			.1020	
40.0000			.9110	.2340	.2030	.1430			.1460	
55.0000			.9080	.2690	.2270	.1470			.1460	
70.0000			.8420	.2740	.1680	.1380			.1460	
90.0000		1.3310	.7190	.2460	.1520	.1300			.1600	
120.0000			.5220	.1700	.1310	.1470			.1550	
142.0000										.0750
150.0000			.4020	.1210	.1030	.1360			.4570	
157.0000								.5660		
162.0000									.4980	
169.0000									.4660	
172.0000							.5290			
180.0000	1.6720	.8690	.2790	.0900	.0790	.0930			.5890	

MACH (2) = 3.502 BETA (1) = -6.740

X/LB	.2259	.2711	.3200	.3693	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0910	.0890	.0860	.0910	.0910	.0910				
20.0000	.0970									
40.0000	.1340	.1150	.1170	.1120	.1310	.1320	.1260		.1020	.1050
55.0000	.1490									
70.0000	.1510	.0600	.0270	.0230	.0210		-.0160	-.0400	-.0430	-.0440
90.0000	.1420	.0520	.0070	-.0010	-.0090		-.0190	-.0330	-.0350	.0060
105.0000									-.0090	.0500
120.0000	.0860	-.0160	-.0210	-.0340	-.0540		-.0600	-.0680	.3620	.2180
135.0000									.0430	.0790
150.0000	-.0150	-.0400	-.0410	-.0420	-.0460		-.0610	-.0690	-.0390	-.0400
165.0000	-.0360	-.0370	-.0340	-.0340	-.0430		-.0560		-.0440	-.0060
180.0000	-.0650	-.0760	-.0780	.0400	.1340		.1090	.0150	1.5480	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB03) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.740

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0020		-.0400
40.0000	.0440	.0150			-.0560
70.0000	-.0320	-.0330	-.0060		
90.0000	.0100	-.0170	.0180		
105.0000	.0130	.0180	.0190		
110.0000				-.0310	
120.0000	.0380	.0020	.0150	-.0330	
135.0000	-.0620	-.0980	-.0600		
150.0000	-.1060	-.1040	-.0630		
165.0000	-.0480	-.0350	-.0320		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -3.460

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7100	1.3780	.7560	.1830	.1180	.1050			.0990	
20.0000			.7970	.2260	.1300	.1060			.1070	
40.0000			.8680	.2260	.1800	.1270			.1260	
55.0000			.8420	.2490	.1840	.1030			.0990	
70.0000			.7620	.2490	.1270	.1020			.1060	
90.0000		1.2730	.6430	.1900	.1120	.0960			.1190	
120.0000			.4760	.1400	.1020	.1180			.1090	
142.0000										.0460
150.0000			.3830	.1080	.0910	.1200			.4170	
157.0000								.5690		
162.0000									.4660	
169.0000									.4640	
172.0000							.4980			
180.0000	1.7100	.8960	.2880	.0960	.0860	.0990			.6250	

* AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQC03) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -3.460

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0970	.0970	.0960	.0920	.0910	.0840				
20.0000	.1000									
40.0000	.1140	.0930	.1060	.1020	.1200	.1180	.1130		.0930	.0960
55.0000	.1020									
70.0000	.1060	.0340	.0080	-.0040	-.0060		-.0370	-.0500	-.0590	-.0610
90.0000	.1010	.0290	-.0050	-.0210	-.0260		-.0400	-.0530	-.0530	-.0250
105.0000									-.0290	.0120
120.0000	.0550	-.0200	-.0330	-.0430	-.0580		-.0730	-.0910	.2360	.1530
135.0000									.0520	.0720
150.0000	-.0220	-.0400	-.0470	-.0510	-.0530		-.0610	-.0610	-.0200	-.0220
165.0000	-.0370	-.0470	-.0440	-.0430	-.0480		-.0550		-.0300	.0040
180.0000	-.0610	-.0670	-.0630	.0590	.1660		.1410	.0270	1.6860	

MACH (2) = 3.502 BETA (2) = -3.460

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0150		-.0750
40.0000	.0480	.0220			-.0520
70.0000	-.0520	-.0540	-.0300		
90.0000	-.0190	-.0370	-.0140		
105.0000	-.0140	-.0100	-.0100		
110.0000				-.0340	
120.0000	.0030	-.0230	-.0140	-.0320	
135.0000	-.0510	-.0850	-.0490		
150.0000	-.0890	-.0920	-.0630		
165.0000	-.0390	-.0340	-.0330		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB03) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = 3.140

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7160	1.3850	.7570	.1870	.1180	.1050			.0930	
20.0000			.7470	.2030	.1140	.1000			.0930	
40.0000			.7470	.2040	.1230	.0930			.0800	
55.0000			.6850	.2030	.1010	.0240			.0260	
70.0000			.5820	.2020	.0490	.0340			.0420	
90.0000		1.0950	.4710	.0910	.0390	.0460			.0450	
120.0000			.3570	.0770	.0440	.0590			.0260	
142.0000										-.0120
150.0000			.3190	.0760	.0640	.0810			.2980	
157.0000								.5170		
162.0000									.4360	
169.0000									.4620	
172.0000							.4710			
180.0000	1.7160	.8990	.2890	.0900	.0810	.0960			.6190	

MACH (2) = 3.502 BETA (3) = 3.140

X/LB	.2259	.2711	.3200	.3955	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0920	.0540	.0920	.0890	.0890	.0860				
20.0000	.0880									
40.0000	.0540	.0310	.0440	.0580	.0780	.0870	.0930		.0870	.0960
55.0000	.0270									
70.0000	.0300	-.0160	-.0370	-.0420	-.0510		-.0690	-.0660	-.0850	-.0770
90.0000	.0220	-.0250	-.0460	-.0460	-.0570		-.0680	-.0750	-.0570	-.0470
105.0000									-.0230	-.0350
120.0000	-.0030	-.0520	-.0580	-.0590	-.0620		-.0550	-.0570	.0260	.0560
135.0000									.0590	.0760
150.0000	-.0500	-.0670	-.0700	-.0590	-.0460		-.0460	-.0470	.0180	.0830
165.0000	-.0700	-.0750	-.0690	-.0550	-.0440		-.0430		-.0120	.0850
180.0000	-.0710	-.0730	-.0660	.0760	.2010		.1770	.0370	1.8350	

AMES 07-707 OA12 OBA ORBITER FUSELAGE (RB0803) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = 3.140

X/LB	.8848	.9262	.9539	1.0015	1.0392
PHI					
.0000			.0110		-.0790
40.0000	.0470	.0260			-.0550
70.0000	-.0950	-.0940	-.0750		
90.0000	-.0810	-.0870	-.0610		
105.0000	-.0300	-.0720	-.0560		
110.0000				-.0180	
120.0000	-.0590	-.0680	-.0470	-.0480	
135.0000	-.0670	-.0680	-.0320		
150.0000	-.0550	-.0540	-.0190		
165.0000	-.0050	-.0070	-.0120		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 6.440

X/LB	.0020	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6690	1.3460	.7470	.1780	.1150	.1010			.0910	
20.0000			.7020	.1860	.1060	.0920			.0880	
40.0000			.6720	.1850	.0960	.0700			.0570	
55.0000			.6010	.1870	.0630	-.0050			.0040	
70.0000			.4880	.1840	.0150	.0110			.0180	
90.0000		.9840	.3860	.0510	.0090	.0230			.0170	
120.0000			.2980	.0440	.0210	.0300			.0080	
142.0000										-.0260
150.0000			.2790	.0540	.0450	.0580			.2420	
157.0000								.4700		
162.0000									.4320	
167.0000									.4420	
172.0000							.4670			
180.0000	1.6690	.8790	.2790	.0820	.0780	.0810			.5840	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB03) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 6.440

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0920	.0940	.0950	.0960	.0950	.0930				
20.0000	.0840									
40.0000	.0250	.0020	.0110	.0290	.0620	.0740	.0810		.0790	.0910
55.0000	-.0080									
70.0000	.0040	-.0270	-.0420	-.0520	-.0630		-.0710	-.0610	-.0820	-.0770
90.0000	.0180	-.0300	-.0540	-.0520	-.0640		-.0680	-.0700	-.0820	-.0510
105.0000									-.0370	-.0360
120.0000	-.0140	-.0580	-.0630	-.0630	-.0540		-.0570	-.0570	.0110	.0080
135.0000									.1640	.1140
150.0000	-.0530	-.0760	-.0750	-.0630	-.0460		-.0510	-.0550	.0050	.0870
165.0000	-.0790	-.0800	-.0730	-.0620	-.0560		-.0530		-.0230	.0520
180.0000	-.0650	-.0710	-.0800	.1070	.2540		.2240	.0500	1.9990	

MACH (2) = 3.502 BETA (4) = 6.440

X/LS	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0100		-.0760
40.0000	.0230	-.0020			-.0570
70.0000	-.1230	-.1060	-.0710		
90.0000	-.1250	-.1140	-.0700		
105.0000	-.1220	-.1080	-.0670		
110.0000				-.0380	
120.0000	-.0920	-.0980	-.0500	-.0520	
135.0000	-.0920	-.0910	-.0360		
150.0000	-.0920	-.1000	-.0420		
165.0000	-.0530	-.0780	-.0340		

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQ804) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.490 BETA (1) = -6.490

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5330	1.5710	1.0230	.3500	.3280	.3300			.3240	
20.0000			1.0950	.4440	.3510	.3440			.3440	
40.0000			1.1120	.4520	.4110	.3770			.3700	
55.0000			1.0350	.4870	.3490	.1660			.1590	
70.0000			.8720	.3880	.1780	.1700			.1660	
90.0000		1.2260	.6470	.1710	.1370	.1240			.1240	
120.0000			.3430	.0420	.0410	.0470			.2040	
142.0000										.2030
150.0000			.1960	-.0320	-.0210	.0520			.3330	
157.0000								.4370		
162.0000									.3600	
169.0000									.2880	
172.0000							.3900			
180.0000	1.5330	.6060	.0810	-.0650	-.0450	.0210			.4140	

MACH (1) = 2.490 BETA (1) = -6.490

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8293
PHI										
.0000	.3290	.3270	.3210	.3040	.2910	.2920				
20.0000	.3380									
40.0000	.3210	.2720	.3110	.3290	.3670	.3630	.3400		.3590	.3340
55.0000	.2750									
70.0000	.1610	.0500	.0250	.0190	-.0080		-.1250	-.1670	-.1760	-.1750
90.0000	.1410	.0290	-.0180	-.0260	-.0340		-.0500	-.0990	-.1280	-.1110
105.0000									-.0450	.0350
120.0000	.0650	-.1240	-.1410	-.1450	-.1580		-.1470	-.1380	.4380	.1650
135.0000									.0930	-.0340
150.0000	-.0930	-.1310	-.1220	-.1570	-.1580		-.1360	-.1150	-.0170	-.0140
165.0000	-.1240	-.0800	-.0980	-.1310	-.1650		-.1330		-.0730	.0020
180.0000	-.1700	-.1600	-.1760	-.0890	-.0540		-.0640	-.0740	.7600	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB04) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.6490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2220		-.1260
40.0000	.3030	.2420			-.1050
70.0000	-.1690	-.1430	-.1680		
90.0000	-.1130	-.1160	-.1070		
105.0000	-.1120	-.1050	-.1110		
110.0000				-.1060	
120.0000	-.0490	-.0930	-.0980	-.1040	
135.0000	-.1130	-.1380	-.1160		
150.0000	-.1240	-.1290	-.1330		
165.0000	-.0800	-.1330	-.1550		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.310

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5430	1.5780	1.0290	.3500	.3230	.3270				
20.0000			1.0650	.4220	.3380	.3340			.3230	
40.0000			1.0440	.4450	.3640	.3350			.3360	
55.0000			.9360	.4550	.2760	.0930			.3390	
70.0000			.7750	.3090	.1190	.1070			.0840	
90.0000		1.1550	.5640	.1150	.0810	.0780			.1090	
120.0000			.2920	.0100	.0080	.0520			.0790	
142.0000									.1450	
150.0000			.1740	-.0450	-.0340	.0500				-.0210
157.0000									.3130	
162.0000								.3580		
169.0000									.3370	
172.0000									.2920	
180.0000	1.5430	.6140	.0800	-.0650	-.0340	.0340	.2260			
									.4080	

AMES 87-707 CAL. OFA ORBITER FUSELAGE (RB2B04) (16 MAY 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.6400 INCHES YMRP = .0000 INCHES

DREF = 39.6400 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDELC = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (2) = -3.310

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7269	.8233
PHI										
.0000	.3310	.3280	.3190	.2970	.2860	.2930				
20.0000	.3310									
40.0000	.2670	.2090	.2440	.2910	.3320	.3390	.3200		.3350	.3300
55.0000	.0960									
70.0000	.1040	.0180	-.0130	-.0250	-.0770		-.1540	-.1850	-.1840	-.1830
90.0000	.1010	-.0080	-.0490	-.0600	-.0690		-.0950	-.1530	-.1760	-.1660
105.0000									-.1520	-.0430
120.0000	.0300	-.1270	-.1500	-.1580	-.1620		-.1330	-.1160	.3240	.1090
135.0000									.0310	-.0020
150.0000	-.1090	-.1370	-.1360	-.1390	-.1650		-.1260	-.1080	-.0050	.0120
165.0000	-.1330	-.1030	-.1080	-.1200	-.1230		-.1670		-.0990	.0160
180.0000	-.1690	-.1560	-.1370	-.0930	-.0610		-.0700	-.0840	.6920	

MACH (1) = 2.499 BETA (2) = -3.310

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2010		-.1320
40.0000	.2730	.2200			-.1060
70.0000	-.2050	-.1750	-.1820		
90.0000	-.1920	-.1830	-.1420		
105.0000	-.1690	-.1690	-.1450		
110.0000				-.0750	
120.0000	-.1220	-.1490	-.1310	-.1320	
135.0000	-.1190	-.1720	-.1380		
150.0000	-.1440	-.1690	-.1460		
165.0000	-.1130	-.1660	-.1650		

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB04) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDEP = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.459 BETA (3) = 3.050

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1521	.1732	.1958
PHI										
.0000	1.5400	1.5710	1.0210	.3480	.3250	.3250			.3250	
20.0000			.9950	.3760	.3180	.3130			.3200	
40.0000			.8960	.3750	.2690	.2500			.2220	
55.0000			.7710	.3050	.1550	-.0160			-.0410	
70.0000			.5800	.3030	.0200	.0050			.0130	
90.0000		.9880	.3930	.0190	-.0090	.0000			.0170	
120.0000			.1950	-.0400	-.0450	.0010			.1130	
142.0000										-.0550
150.0000			.1260	-.0720	-.0330	.0270			.2360	
157.0000								.3210		
162.0000									.2570	
169.0000									.2590	
172.1400							.2370			
180.0000	1.5400	.6150	.0840	-.0690	-.0350	.0460			.3810	

MACH (1) = 2.498 BETA (3) = 3.050

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3280	.3190	.3120	.2990	.2860	.2900				
20.0000	.3150									
40.0000	.1490	.0810	.1180	.1900	.2630	.2870	.2830		.2940	.2980
55.0000	-.0520									
70.0000	.0130	-.0590	-.0740	-.0870	-.1950		-.1800	-.2030	-.1930	-.1920
90.0000	.0390	-.0820	-.0990	-.1070	-.1210		-.1920	-.2210	-.2140	-.2200
105.0000									-.1620	-.1970
120.0000	-.0490	-.1350	-.1440	-.1650	-.1460		-.1280	-.1310	.0610	.0150
135.0000									.0670	.0000
150.0000	-.1330	-.1420	-.1450	-.1250	-.1310		-.1400	-.1240	-.0140	-.0070
165.0000	-.1690	-.1510	-.1210	-.0880	-.0860		-.1120		-.0800	.0650
180.0000	-.1770	-.1640	-.1360	-.0890	-.0630		-.0830	-.0880	.6590	

DATE 07 SEP 79 TABULATED PRESSURE DATA - OA12C (R80804) (16 MAY 73)

AMES 87-707 OA12 02A ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3730 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = 3.050

X/LB	.8048	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2020		-.1390
40.0000	.2420	.2000			-.1100
70.0000	-.2200	-.1930	-.1770		
90.0000	-.2260	-.2400	-.1860		
105.0000	-.2480	-.2450	-.1960		
110.0000				-.0800	
120.0000	-.1900	-.2020	-.1390	-.1380	
135.0000	-.1890	-.1970	-.1430		
150.0000	-.1790	-.1190	-.0850		
165.0000	.0600	.0100	-.0180		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 6.240

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI									.3180	
.0000	1.5310	1.5530	1.0070	.3460	.3220	.3200			.2990	
20.0000			.9510	.3540	.3000	.3010			.1760	
40.0000			.8260	.3500	.2210	.2050			-.0820	
55.0000			.6890	.3270	.1000	-.0620			-.0330	
70.0000			.4970	.1300	-.0220	-.0430			-.0180	
90.0000		.9080	.3220	-.0210	-.0440	-.0260			.0810	
120.0000			.1500	-.0690	-.0400	-.0180				-.0960
142.0000									.2090	
150.0000			.1020	-.0820	-.0400	-.0200		.2770		
157.0000									.2980	
162.0000									.2890	
169.0000							.3430			
172.0000									.3870	
180.0000	1.5310	.6160	.0390	-.0690	-.0460	.0000				

AMES 87-707 OA12 OEA ORBITER FUSELAGE (RBQB04) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 6.240

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3220	.3240	.3180	.2990	.2940	.2880				
20.0000	.2980									
40.0000	.0930	.0340	.0630	.1280	.2360	.2640	.2780		.2760	.2800
55.0000	-.1010									
70.0000	-.0390	-.0780	-.0920	-.1370	-.2100		-.1850	-.2000	-.1880	-.1820
90.0000	.0130	-.0700	-.1000	-.1240	-.1470		-.2200	-.2170	-.2060	-.2050
105.0000									-.2000	-.1930
120.0000	-.0480	-.1250	-.1460	-.1600	-.1420		-.1360	-.1540	-.0520	-.1510
135.0000									-.0010	-.0220
150.0000	-.1450	-.1440	-.1470	-.1040	-.1020		-.1340	-.1330	-.0270	-.0520
165.0000	-.1800	-.1620	-.1220	-.0880	-.0830		-.1050		-.0940	.0480
180.0000	-.1740	-.1710	-.1830	-.0930	-.0650		-.0840	-.0930	.5980	

MACH (1) = 2.498 BETA (4) = 6.240

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1700		-.1720
40.0000	.2010	.1560			-.1680
70.0000	-.2430	-.2230	-.1760		
90.0000	-.2600	-.2660	-.1850		
105.0000	-.2600	-.2670	-.1840		
110.0000				-.0820	
120.0000	-.2660	-.2650	-.1840	-.1730	
135.0000	-.2660	-.2140	-.1240		
150.0000	-.2000	-.1210	-.0410		
165.0000	-.0460	-.0720	-.0510		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0804) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.710

X/LB	.0000	.0075	.0180	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5220	1.5600	1.0090	.3530	.2840	.2720			.2770	
20.0000			1.0810	.4340	.3100	.2630			.2990	
40.0000			1.1100	.4340	.3700	.3360			.3450	
55.0000			1.0190	.4680	.3120	.1540			.1360	
70.0000			.8670	.4040	.1710	.1440			.1420	
90.0000		1.2190	.6430	.1920	.1320	.1050			.1060	
120.0000			.3520	.0770	.0570	.0440			.1000	
142.0000										.0070
150.0000			.2140	.0150	.0120	.0380			.2250	
157.0000								.3160		
162.0000									.2670	
169.0000									.2400	
172.0000							.0910			
180.0000	1.5220	.5960	.1150	-.0120	-.0080	.0120			.3030	

MACH (2) = 3.502 BETA (1) = -6.710

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2880	.2870	.2890	.2950	.2830	.2800				
20.0000	.3030									
40.0000	.3140	.2550	.2810	.3100	.3510	.3510	.3450		.3090	.3040
55.0000	.1500									
70.0000	.1360	.0550	.0220	.0250	.0140		-.0500	-.0240	-.0750	-.0790
90.0000	.1060	.0250	-.0090	-.0050	-.0040		-.0160	-.0380	-.0500	-.0440
105.0000									-.0140	.0640
120.0000	.0700	-.0610	-.0700	-.0700	-.0810		-.0790	-.0760	.4260	.2100
135.0000									.0230	.0170
150.0000	-.0480	-.0760	-.0720	-.0620	-.0900		-.0830	-.0780	-.0370	-.0390
165.0000	-.0750	-.0610	-.0610	-.0770	-.0960		-.0860		-.0520	-.0220
180.0000	-.0960	-.0980	-.0880	.9090	1.4110		1.2910	.3960	3.8060	

AMES 87-707 0A12 02A ORBITER FUSELAGE (RB0804) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.710

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1700		-.0580
40.0000	.2490	.2010			-.0560
70.0000	-.0780	-.0810	-.0690		
90.0000	-.0490	-.0410	-.0370		
105.0000	-.0160	-.0220	-.0360		
110.0000				-.0580	
120.0000	.0100	-.0300	-.0280	-.0590	
135.0000	-.0720	-.0910	-.0630		
150.0000	-.1000	-.1000	-.0800		
165.0000	-.0550	-.0730	-.0750		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -3.430

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5770	1.6100	1.0490	.3690	.2930	.2810			.2820	
20.0000			1.0840	.4310	.3080	.2920			.3000	
40.0000			1.0680	.4430	.3390	.3100			.3100	
55.0000			.9570	.4530	.2660	.1090			.0780	
70.0000			.7890	.3290	.1360	.1050			.0980	
90.0000		1.1750	.5750	.1550	.0990	.0760			.0720	
120.0000			.3160	.0600	.0420	.0470			.0730	
142.0000										-.0050
150.0000			.2050	.0130	.0090	.0410			.2120	
157.0000								.3030		
162.0000									.2630	
169.0000									.2540	
172.0000							.0830			
180.0000	1.5770	.6220	.1280	-.0030	-.0010	.0260			.3340	

AMES 87-707 OA12 CCA ORBITER FUSELAGE (RBQB04) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -3.430

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2970	.2990	.2990	.2920	.2820	.2770				
20.0000	.3050									
40.0000	.2750	.2130	.2370	.2770	.3200	.3290	.3240		.2940	.2880
55.0000	.0880									
70.0000	.0920	.0240	-.0020	-.0040	-.0260		-.0630	-.0280	-.0800	-.0800
90.0000	.0740	.0010	-.0230	-.0230	-.0300		-.0420	-.0660	-.0740	-.0800
105.0000									-.0340	.0150
120.0000	.0470	-.0650	-.0720	-.0760	-.0880		-.0750	-.0650	.3610	.1490
135.0000									.0260	.0100
150.0000	-.0540	-.0740	-.0730	-.0850	-.0890		-.0790	-.0700	-.0280	-.0170
165.0000	-.0730	-.0650	-.0590	-.0710	-.0930		-.0890		-.0610	-.0080
180.0000	-.0890	-.0880	-.0830	.6760	1.1220		1.0130	.3160	3.4880	

MACH (2) = 3.502 BETA (2) = -3.430

X/LB	.8648	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1730		-.0780
40.0000	.2460	.2010			-.0560
70.0000	-.0940	-.0830	-.0710		
90.0000	-.0790	-.0750	-.0580		
105.0000	-.0780	-.0630	-.0560		
110.0000				-.0290	
120.0000	-.0200	-.0330	-.0470	-.0510	
135.0000	-.0470	-.0840	-.0660		
150.0000	-.0850	-.0880	-.0760		
165.0000	-.0900	-.0760	-.0790		

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQB04) (16 MAY 73)

AMES 87-707 OA12 O2A ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.5000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = 3.160

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5750	1.6080	1.0310	.3670	.2910	.2790			.2820	
20.0000			1.0130	.3930	.2840	.2720			.2790	
40.0000			.9210	.3910	.2500	.2310			.2200	
55.0000			.7790	.3850	.1600	.0230			-.0120	
70.0000			.5990	.2090	.0540	.0210			.0190	
90.0000		1.0040	.4140	.0690	.0290	.0160			.0180	
120.0000			.2250	.0130	-.0020	.0240			.0260	-.0280
142.0000									.1220	
150.0000			.1590	-.0100	-.0020	.0190		.0950		
157.0000									.2220	
162.0000									.2340	
169.0000							.0540			
172.0000									.3340	
180.0000	1.5750	.6230	.1280	-.0080	-.0010	.0[illegible]				

MACH (2) = 3.502 BETA (3) = 3.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2960	.3040	.3050	.2910	.2790	.2740				
20.0000	.2870									
40.0000	.1650	.1180	.1420	.1850	.2500	.2780	.2810		.2640	.2610
55.0000	-.0130									
70.0000	.0090	-.0220	-.0450	-.0520	-.1020		-.0780	-.0650	-.0890	-.0890
90.0000	.0230	-.0310	-.0500	-.0550	-.0630		-.1090	-.1120	-.1080	-.1070
105.0000									-.1060	-.1070
120.0000	-.0070	-.0660	-.0810	-.0880	-.0860		-.0860	-.0910	.0980	.0060
135.0000									-.0170	.0030
150.0000	-.0610	-.0730	-.0770	-.0800	-.0980		-.0890	-.0830	-.0450	-.0300
165.0000	-.0840	-.0780	-.0730	-.0600	-.0650		-.0830		-.0650	-.0250
180.0000	-.0850	-.0820	-.0820	.1380	.4010		.3550	.0900	2.3710	

DATE 13 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB04) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = 3.160

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1560		-.0830
40.0000	.2140	.1760			-.0630
70.0000	-.1030	-.1050	-.0760		
90.0000	-.1070	-.1310	-.0970		
105.0000	-.1270	-.1340	-.1000		
110.0000				-.0500	
120.0000	-.0950	-.1070	-.0810	-.0780	
135.0000	-.0950	-.1130	-.2290		
150.0000	-.1120	-.1070	-.0720		
165.0000	-.0600	-.0710	-.0510		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 6.470

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5350	1.5660	1.0000	.3580	.2850	.2750			.2760	
20.0000			.9510	.3630	.2660	.2600			.2630	
40.0000			.8280	.3590	.2070	.1910			.1720	
55.0000			.6800	.3390	.1150	-.0040			-.0400	
70.0000			.5040	.1630	.0240	-.0900			-.0160	
90.0000		.8980	.3385	.0330	.0020	.0040			.0030	
120.0000			.1810	-.0070	-.0190	.0070			.0060	
142.0000										-.0460
150.0000			.1340	-.0210	-.0170	.0050			.1400	
157.0000								.1840		
162.0000									.2300	
169.0000									.2210	
172.0000							.1390			
180.0000	1.5350	.6080	.1200	-.0120	-.0070	.0120			.3050	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0804) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 6.470

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2890	.2990	.3010	.2950	.2890	.2830				
20.0000	.2730									
40.0000	.1150	.0720	.0920	.1350	.2160	.2420	.2580		.2440	.2430
55.0000	-.0400									
70.0000	-.0230	-.0460	-.0630	-.0850	-.1060		-.0810	-.0690	-.0910	-.0860
90.0000	.0030	-.0450	-.0610	-.0700	-.0840		-.1150	-.1110	-.1060	-.1040
105.0000									-.1070	-.1060
120.0000	-.0250	-.0650	-.0790	-.0870	-.0850		-.0890	-.0990	-.0860	-.1030
135.0000									-.0200	-.0340
150.0000	-.0720	-.0830	-.0800	-.0760	-.0730		-.0870	-.0910	-.0600	-.0350
165.0000	-.0890	-.0840	-.0770	-.0550	-.0620		-.0810		-.0700	-.0350
180.0000	-.0850	-.0870	-.0900	.1450	.3170		.2760	.0640	2.1710	

MACH (2) = 3.502 BETA (4) = 6.470

X/LB	.8849	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1620		-.0840
40.0000	.2090	.1700			-.0610
70.0000	-.0980	-.0990	-.0760		
90.0000	-.1020	-.1240	-.0970		
105.0000	-.1200	-.1240	-.0980		
110.0000				-.0410	
120.0000	-.1210	-.1210	-.0970	-.0890	
135.0000	-.1210	-.1160	-.0940		
150.0000	-.1190	-.1040	-.0610		
165.0000	-.0640	-.0750	-.0610		

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RB0005) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3900 INCHES
LREF = 39.8 90 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CF

MACH (1) = 2.498 BETA (1) = -6.440

X/LB	.0000	.0075	.0188	.0339	.0612	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6870	1.0750	.4840	.0070	-.0150	-.0010			.0020	
20.0000			.5440	.0430	-.0180	-.0060			-.0070	
40.0000			.6950	.0430	.0730	.0070			-.0110	
55.0000			.7580	.0890	.1600	.1590			.1650	
70.0000			.7790	.1470	.1740	.1830			.1970	
90.0000		1.3590	.7680	.2470	.1850	.2110			.2010	
120.0000			.7190	.2840	.2490	.2930			.3980	
142.0000										.1220
150.0000			.6590	.2830	.2720	.3440			.8560	
157.0000								1.0130		
162.0000									.8530	
169.0000									.7730	
172.0000							.9750			
180.0000	1.6870	1.1520	.5060	.2460	.2440	.3240			.9970	

MACH (1) = 2.498 BETA (1) = -6.440

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0030	.0120	.0130	.0110	.0080	-.0010				
20.0000	-.0050									
40.0000	-.0230	-.0280	-.0530	-.0540	-.0100	-.0050	-.0100		-.0260	-.0320
55.0000	.1580									
70.0000	.2090	.0710	.0090	.0460	.0610		.0040	-.0280	-.0200	.0390
90.0000	.2110	.0500	.0120	.0120	.0450		.0170	-.0110	.0270	.0970
109.0000									.1130	.1460
120.0000	.1780	.0080	-.0140	-.0010	.0050		.0040	-.0110	.3520	.2730
139.0000									.3350	.3270
150.0000	.0250	-.0080	-.0170	-.0160	-.0190		-.0100	-.0170	.0750	.1250
165.0000	-.0380	-.0150	-.0080	-.0160	-.0190		-.0050		.0950	.1920
180.0000	-.0810	-.0810	-.0630	-.0150	.0880		.0730	-.0470	.9090	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (REQB05) (16 MAY 73)

REFERENCE DATA

SREF = 2.4215 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0690		-.1190
40.0000	-.0780	-.0900			-.0680
70.0000	.0390	-.0030	.0200		
90.0000	.0780	.0500	.0410		
105.0000	.1090	.0490	.0300		
110.0000				-.0320	
120.0000	.1100	.0510	.0520	.0360	
135.0000	-.0370	-.0260	-.0050		
150.0000	-.0850	-.0360	.0400		
165.0000	.1230	.1490	.0750		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7030	1.0890	.4940	.0070	-.0210	.0010			.0010	
20.0000			.5300	.0340	-.0240	-.0070			-.0050	
40.0000			.6470	.0340	.0430	.0020			-.0150	
55.0000			.6860	.0670	.1090	.1110			.1160	
70.0000			.6890	.1000	.1140	.1320			.1390	
90.0000		1.2750	.6750	.1790	.1270	.1600			.1640	
120.0000			.6440	.1780	.1960	.2310			.3120	
142.0000										.0710
150.0000			.6150	.2270	.2450	.2990			.7770	
157.0000								.9530		
162.0000									.8080	
169.0000									.7760	
172.0000							.9710			
180.0000	1.7030	1.1650	.5040	.2290	.2440	.3210			1.0160	

AMES 87-707 Cm12 02A ORBITER FUSELAGE (RBOBOS) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0090	.0140	.0170	.0130	.0070	.0040				
20.0000	-.0020									
40.0000	-.0220	-.0230	-.0340	-.0280	.0020	.0040	-.0020		-.0120	-.0210
55.0000	.1060									
70.0000	.1570	.0300	-.0280	.0030	.0230		-.0260	-.0520	-.0460	.0030
90.0000	.1500	.0080	-.0250	-.0250	.0080		-.0130	-.0380	-.0050	.0360
105.0000									.0720	.0760
120.0000	.1230	-.0300	-.0360	-.0340	-.0230		-.0130	-.0190	.3010	.1980
135.0000									.3580	.3230
150.0000	.0030	-.0410	-.0440	-.0390	-.0350		-.0170	-.0170	.0950	.1850
165.0000	-.0610	-.0570	-.0390	-.0370	-.0370		-.0160		.1030	.2200
180.0000	-.0870	-.0740	-.0600	-.0180	.1010		.0850	-.0490	.9460	

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	.8848	.9262	.9659	1.0015	1.0392
PHI					
.0000			-.0710		-.1130
40.0000	-.0720	-.0830			-.0610
70.0000	-.0090	-.0390	-.0130		
90.0000	.0320	.0020	.0050		
105.0000	.0370	.0020	-.0050		
110.0000				-.0220	
120.0000	.0160	.0010	.0250	.0090	
135.0000	-.0430	-.0440	.0100		
150.0000	-.0630	-.0070	.0710		
165.0000	.1420	.1320	.0480		

DATE 07 SEP 73 TABULATED PRESSURF DATA - OA12C (RBQB05) (16 MAY 73)

AMES 87-707 OA12 02A ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4215 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDNER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7040	1.0930	.4880	.0130	-.0250	.0060			.0040	
20.0000			.5140	.0290	-.0270	.0000			.0060	
40.0000			.5950	.0290	.0230	.0000			.0000	
55.0000			.6140	.0520	.0660	.0670			.0730	
70.0000			.5960	.0670	.0660	.0850			.0920	
90.0000		1.1850	.5820	.1120	.0750	.1020			.1050	
120.0000			.5680	.1290	.1460	.1380			.1990	.0250
142.0000			.5690	.1820	.2160	.2670		.9050	.6880	
150.0000									.7480	
157.0000									.7700	
162.0000							.9760			
169.0000									1.0100	
172.0000			.5150	.2340	.2470	.3100				
180.0000	1.7040	1.1710								

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0090	.0180	.0190	.0190	.0170	.0060				
20.0000	.0060						.0020		-.0020	-.0070
40.0000	-.0040	-.0070	-.0110	-.0070	.0140	.0100				
55.0000	.0670						-.0410	-.0620	-.0590	-.0130
70.0000	.1080	-.0090	-.0520	-.0280	-.0050		-.0240	-.0440	-.0030	.0070
90.0000	.0900	-.0310	-.0510	-.0510	-.0190				.0620	.0320
105.0000							-.0150	-.0190	.1850	.1310
120.0000	.0710	-.0610	-.0600	-.0560	-.0340				.3430	.3240
135.0000							-.0220	-.0150	.1310	.2590
150.0000	-.0235	-.0700	-.0670	-.0470	-.0400		-.0260		.1330	2370
165.0000	-.0770	-.0840	-.0590	-.0430	-.0370		.0980	-.0560	.9820	
180.0000	-.0900	-.0680	-.0620	-.0090	.1170					

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB02B05) (16 MAY 79)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0680		-.1060
40.0000	-.0580	-.0580			-.0510
70.0000	-.0370	-.0560	-.0340		
90.0000	.0010	-.0280	-.0200		
105.0000	.0340	-.0250	-.0260		
110.0000				-.0130	
120.0000	-.0410	-.0250	.0000	-.0060	
135.0000	-.0520	-.0500	.0270		
150.0000	-.0140	.0250	.0640		
165.0000	.1530	.1110	.0290		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.0000	.0075	.0188	.0239	.0602	.1355	.1506	.1581	.1732	.1955
PHI										
.0000	1.7010	1.0920	.4920	.0120	-.0190	.0000			.0030	
20.0000			.4900	.0230	-.0340	-.0020			.0080	
40.0000			.5430	.0200	-.0040	-.0040			.0060	
55.0000			.5440	.0330	.0260	.0330			.0340	
70.0000			.5180	.0330	.0190	.0490			.0440	
90.0000		1.0970	.4980	.0350	.0270	.0550			.1030	
120.0000			.5010	.1120	.1010	.0920			.1100	
142.0000										-.1030
150.0000			.5240	.1670	.1890	.2350			.6030	
157.0000								.8450		
162.0000									.7210	
169.0000									.7720	
172.0000							.9650			
180.0000	1.7010	1.1670	.5050	.2240	.2450	.3060			1.0010	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB05) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = .0

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0100	.0190	.0160	.0120	.0120	.0050				
20.0000	.0070								.0060	.0020
40.0000	.0020	-.0010	.0080	-.0040	.0120	.0080	.0060			
55.0000	.0450						-.0450	-.0620	-.0570	-.0290
70.0000	.0730	-.0320	-.0730	-.0480	-.0270		-.0280	-.0470	.0090	.0030
90.0000	.0380	-.0560	-.0730	-.0720	-.0280				.0330	.0020
105.0000							-.0240	-.0230	.1250	.0790
120.0000	.0170	-.0890	-.0890	-.0760	-.0490				.4770	.3250
135.0000							-.0310	-.0220	.1640	.4150
150.0000	-.0520	-.0970	-.0820	-.0620	-.0480		-.0440		.0270	.3160
165.0000	-.0990	-.1010	-.0750	-.0530	-.0460		.1110	-.0640	1.0250	
180.0000	-.0870	-.0700	-.0630	-.0090	.1370					

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0790		-.1120
40.0000	-.0590	-.0690			-.0390
70.0000	-.0590	-.0690	-.0430		
90.0000	-.0370	-.0690	-.0370		
105.0000	-.0290	-.0700	-.0430		
110.0000				-.0180	
120.0000	-.1000	-.0690	-.0080	-.0150	
135.0000	-.1000	-.0690	-.0110		
150.0000	-.0130	.0070	.0200		
165.0000	.1380	.0480	.0340		

AMES 87-MCF OA12 OEA ORBITER FUSELAGE (RB0805) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.290

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1953
PHI										
.0000	1.6840	1.0770	.4900	.0070	-.0310	-.0040			.0010	
20.0000			.4670	.0120	-.0310	-.0060			.0020	
40.0000			.4920	.0120	-.0270	-.0090			.0000	
55.0000			.4750	.0150	-.0130	.0070			.0060	
70.0000			.4330	.0140	-.0220	.0180			.0140	
90.0000		1.0060	.4110	.0150	-.0130	.0240			.0650	
120.0000			.4270	.0180	.0630	.0630			.0650	
142.0000										-.0480
150.0000			.4750	.1340	.1610	.1910			.5230	
157.0000								.8120		
162.0000									.6980	
169.0000									.7670	
172.0000							.9310			
180.0000	1.6840	1.1640	.4980	.2100	.2450	.3000			.9880	

MACH (1) = 2.498 BETA (5) = 6.290

X/LB	.2259	.2711	.3200	.3953	.5120	.5&	.6626	.7380	.7869	.8283
PHI										
.0000	.0060	.0120	.0150	.0120	.0050	.0010				
20.0000	.0030								.0090	.0060
40.0000	-.0010	.0020	.0040	-.0030	.0080	.0090	.0070			
55.0000	.0320									
70.0000	.0360	-.0480	-.0880	-.0600	-.0350		-.0390	-.0550	-.0600	-.0340
90.0000	.0030	-.0800	-.0940	-.0910	-.0340		-.0250	-.0370	-.0010	-.0080
105.0000									.0230	-.0170
120.0000	-.0260	-.1150	-.1190	-.0920	-.0600		-.0230	-.0240	.1480	.0540
135.0000									.5510	.3520
150.0000	-.0770	-.1180	-.1010	-.0790	-.0620		-.0650	-.0640	.0850	.2000
155.0000	-.1240	-.1070	-.0890	-.0760	-.0950		-.0810		.0540	.2120
180.0000	-.0830	-.0860	-.0620	-.0050	.1570		.1330	-.0720	1.0590	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB05) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.290

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0820		-.1170
40.0000	-.0510	-.0620			-.0690
70.0000	-.0590	-.0640	-.0520		
90.0000	-.0420	-.0660	-.0490		
105.0000	-.0410	-.0730	-.0550		
110.0000				-.0360	
120.0000	-.1170	-.1030	-.0520	-.0430	
135.0000	-.1190	-.0960	-.0440		
150.0000	-.0200	-.0010	.0050		
165.0000	.0600	-.0170	-.0220		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (1) = -6.670

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6920	1.0660	.4760	.0620	.0250	.0080			-.0020	
20.0000			.5480	.0830	.0150	.0030			-.0030	
40.0000			.6980	.1140	.0840	.0230			.0110	
55.0000			.7570	.1440	.1580	.1340			.1410	
70.0000			.7750	.2280	.1650	.1520			.1610	
90.0000		1.3650	.7630	.2600	.1740	.1760			.1500	
120.0000			.7100	.2890	.2290	.2480			.3300	
142.0000										.1660
150.0000			.6460	.2660	.2430	.2920			.8410	
157.0000								.9610		
162.0000									.9380	
169.0000									.8800	
172.0000							.8900			
180.0000	1.6920	1.1470	.5030	.2470	.2170	.2500			1.1170	

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RB0805) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 5.501 BETA (1) = -6.670

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8285
PHI										
.0000	.0020	.0060	.0060	.0010	.0010	.0240				
20.0000	-.0090									
40.0000	.0060	.0020	-.0200	-.0380	-.0180	-.0160	-.0130		-.0240	.0060
55.0000	.1360									
70.0000	.1720	.0870	.0350	.0500	.0600		.0190	.0240	-.0130	.0140
90.0000	.1870	.0710	.0360	.0260	.0440		.0280	.0080	.0090	.0630
105.0000									.0840	.0900
120.0000	.1720	.0450	.0140	.0160	.0110		.0130	.0040	.2830	.2810
135.0000									.2850	.3270
150.0000	.1620	.0320	.0110	-.0040	-.0090		-.0030	-.0010	.0520	.1210
165.0000	.1370	.0130	.0120	-.0080	-.0090		.0020		.0610	.1210
180.0000	-.0070	-.0220	-.0330	1.2410	1.8260		1.7570	.6190	2.2700	

MACH (2) = 5.501 BETA (1) = -6.670

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0480		-.0710
40.0000	-.0480	-.0570			-.0400
70.0000	.0490	.0380	.0340		
90.0000	.0740	.0780	.0740		
105.0000	.0910	.0970	.0770		
110.0000				-.0060	
120.0000	.0910	.0470	.0910	.0810	
135.0000	.0310	-.0110	.0040		
150.0000	-.0350	-.0230	.0110		
165.0000	.0780	.1250	.0780		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0805) (16 MAY 79)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7400	1.1010	.4970	.0650	.0170	.0110			.0070	
20.0000			.5480	.0830	.0170	.0080			.0050	
40.0000			.6660	.1140	.0670	.0210			.0100	
55.0000			.7040	.1330	.1210	.0950			.1020	
70.0000			.6990	.1910	.1230	.1120			.1180	
90.0000		1.2990	.6830	.2090	.1320	.1370			.1030	
120.0000			.6480	.2450	.1890	.1960			.2530	
142.0000										.1240
150.0000			.6120	.2480	.2260	.2580			.7480	
157.0000								.9160		
162.0000									.8810	
169.0000									.8690	
172.0000							.9130			
180.0000	1.7400	1.1780	.5110	.2490	.2260	.2540			1.1260	

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0100	.0100	.0070	.0050	.0060	.0300				
20.0000	.0020									
40.0000	.0020	-.0060	-.0130	-.0200	-.0020	-.0020	-.0030		-.0130	.0190
55.0000	.0880									
70.0000	.1220	.0520	.0080	.0200	.0280		-.0040	.0180	-.0260	-.0070
90.0000	.1300	.0340	.0080	-.0030	.0160		.0020	-.0150	-.0060	.0190
105.0000									.0490	.0460
120.0000	.1240	.0130	-.0090	-.0050	-.0120		-.0040	-.0000	.2460	.1800
135.0000									.2690	.2980
150.0000	.0420	.0040	-.0110	-.0200	-.0210		-.0130	-.0120	.0550	.1400
165.0000	.0140	-.0110	-.0120	-.0210	-.0210		-.0160		.0550	.1370
180.0000	-.0150	-.0280	-.0300	1.6670	2.3060		2.2440	.7860	2.4750	

AMES 87-707 OA12 OEA ORBITER FUSELAGE (RBQB05) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0650		-.0570
40.0000	-.0680	-.0760			-.0230
70.0000	-.0220	-.0360	.0050		
90.0000	.0020	.0020	.0390		
105.0000	.0170	.0040	.0420		
110.0000				.0350	
120.0000	.0180	-.0200	.0440	.0480	
135.0000	.0190	-.0470	.0050		
150.0000	-.0550	-.0440	.0160		
165.0000	.0790	.0840	.0700		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.160

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7520	1.1090	.5020	.0680	.0180	.0120			.0050	
20.0000			.5250	.0760	.0120	.0070			.0060	
40.0000			.6120	.0810	.0480	.0130			.0070	
55.0000			.6300	.0960	.0850	.0600			.0620	
70.0000			.6120	.1340	.0830	.0750			.0730	
90.0000		1.2100	.5930	.1540	.0690	.0940			.0660	
120.0000			.5740	.1980	.1470	.1460			.1720	
142.0000										.0890
150.0000			.5720	.2200	.2010	.2280			.6640	
157.0000								.8980		
162.0000									.8300	
169.0000									.8580	
172.0000							.9630			
180.0000	1.7520	1.1930	.5160	.2490	.2260	.2610			1.1250	

AMES 07-707 OA12 02A ORBITER FUSELAGE (RB0805) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0070	.0090	.0060	.0010	.0040	.0330				
20.0000	.0010									
40.0000	-.0020	-.0100	-.0100	-.0100	.0010	-.0010	-.0020		-.0070	.0220
55.0000	.0490									
70.0000	.0780	.0150	-.0180	-.0100	-.0010		-.0250	.0130	-.0430	-.0230
90.0000	.0840	-.0030	-.0190	-.0290	-.0100		-.0190	-.0310	-.0220	-.0060
105.0000									.0370	.0200
120.0000	.0780	-.0180	-.0280	-.0320	-.0340		-.0160	-.0160	.1270	.0990
135.0000									.2310	.2740
150.0000	.0210	-.0180	-.0310	-.0360	-.0310		-.0230	-.0170	.0760	.1750
165.0000	-.0080	-.0290	-.0310	-.0350	-.0280		-.0230		.0530	.1550
180.0000	-.0220	-.0240	-.0300	2.2690	2.9340		2.8890	1.0040	2.7130	

MACH (2) = 3.501 BETA (3) = -.160

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0310		-.0570
40.0000	-.0230	-.0310			-.0210
70.0000	-.0130	-.0290	-.0190		
90.0000	.0040	.0050	.0050		
105.0000	.0040	.0060	.0000		
110.0000				.0300	
120.0000	.0060	.0050	-.0050	.0170	
135.0000	.0060	-.0160	-.0040		
150.0000	.0040	.0080	.0350		
165.0000	.1130	.0970	.0470		

AMES 87-707 OA12 OPA ORBITER FUSELAGE (RBBB05) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3.000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.180

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7450	1.1000	.4930	.0660	.0300	.0110			.0050	
20.0000			.5040	.0680	.0110	.0070			.0040	
40.0000			.5600	.0670	.0300	.0070			.0090	
55.0000			.5570	.0770	.0530	.0360			.0350	
70.0000			.5240	.0830	.0450	.0470			.0450	
90.0000		1.1080	.5000	.1060	.0520	.0620			.0300	
120.0000			.5020	.1570	.1100	.1100			.0890	
142.0000										.0520
150.0000			.5230	.1960	.1780	.2050			.5720	
157.0000								.8410		
162.0000									.8020	
169.0000									.8550	
172.0000							.9000			
180.0000	1.7450	1.1890	.5140	.2460	.2270	.2540			1.1110	

MACH (2) = 3.501 BETA (4) = 3.180

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0020	.0070	.0060	.0020	.0040	.0370				
20.0000	.0030									
40.0000	-.0080	-.0050	-.0030	-.0050	-.0010	.0010	-.0010		-.0040	.0260
55.0000	.0200									
70.0000	.0480	-.0110	-.0360	-.0270	-.0160		-.0340	.0180	-.0550	-.0370
90.0000	.0370	-.0250	-.0340	-.0450	-.0310		-.0240	-.0330	-.0180	-.0080
105.0000									.0150	-.0080
120.0000	.0410	-.0370	-.0480	-.0510	-.0450		-.0240	-.0200	.0490	.0560
135.0000									.3750	.2670
150.0000	.0090	-.0370	-.0440	-.0480	-.0380		-.0310	-.0250	.0900	.2970
165.0000	-.0290	-.0410	-.0380	-.0380	-.0330		-.0360		-.0140	.1450
181.0000	-.0220	-.0310	-.0340	3.0860	3.7190		3.7070	1.2880	2.9640	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQBD5) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.180

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0560		-.0660
40.0000	-.0430	-.0500			-.0300
70.0000	-.0450	-.0480	-.0300		
90.0000	-.0360	-.0460	-.0240		
105.0000	-.0330	-.0470	-.0270		
110.0000				.0170	
120.0000	-.0590	-.0640	-.0300	-.0240	
135.0000	-.0590	-.0440	-.0130		
150.0000	-.0010	-.0150	.0160		
165.0000	.1000	.0330	.0360		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.530

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6950	1.0660	.4580	.0540	.0180	.0040			-.0020	
20.0000			.4600	.0540	-.0050	.0000			-.0020	
40.0000			.4690	.0540	.0040	.0000			.0030	
55.0000			.4760	.0520	.0190	.0130			.0080	
70.0000			.4380	.0520	.0110	.0210			.0240	
90.0000		.9910	.4090	.0530	.0190	.0280			-.0010	
120.0000			.4220	.0910	.0740	.0690			.0310	
142.0000										.0190
150.0000			.4630	.1570	.1500	.1730			.4780	
157.0000								.7600		
162.0000									.7770	
169.0000									.8380	
172.0000							.8050			
180.0000	1.6950	1.1590	.4950	.2150	.2140	.2360			1.0960	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 OEA ORBITER FUSELAGE (RBQB05) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.6490 INCHES YMRP = .0000 INCHES

BREF = 39.6490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.530

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	-.0010	.0050	.0050	-.0090	.0090	.0360				
20.0000	-.0030								-.0090	.0290
40.0000	-.0155	-.0040	-.0040	-.0150	-.0100	-.0050	-.0080			
55.0000	.0000									
70.0000	.0190	-.0280	-.0510	-.0440	-.0320		-.0420	.0180	-.0900	-.0400
90.0000	.0010	-.0470	-.0550	-.0620	-.0410		-.0320	-.0970	-.0310	-.0240
105.0000									-.0020	-.0340
120.0000	.0050	-.0360	-.0720	-.0690	-.0620		-.0380	-.0350	.1030	.0270
135.0000									.3430	.2520
150.0000	-.0090	-.0550	-.0610	-.0610	-.0480		-.0520	-.0570	.0100	.0880
165.0000	-.0520	-.0510	-.0500	-.0540	-.0620		-.0620		-.0120	.0590
180.0000	-.0180	-.0260	-.0440	4.2450	4.2290		4.2440	1.5960	3.1280	

MACH (2) = 3.501 BETA (5) = 6.530

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0090		-.0720
40.0000	-.0580	-.0440			-.0440
70.0000	-.0410	-.0400	-.0380		
90.0000	-.0390	-.0470	-.0320		
105.0000	-.0590	-.0680	-.0480		
110.0000				-.0300	
120.0000	-.0740	-.0760	-.0470	-.0440	
135.0000	-.0730	-.0590	-.0310		
150.0000	-.0010	-.0090	-.0050		
165.0000	.0010	-.0290	-.0300		

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RB0B06) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6660	1.3590	.7590	.1460	.1110	-.0310			.1210	
20.0000			.8170	.2140	.1300	-.0280			.1330	
40.0000			.9130	.2190	.2240	.0170			.1630	
55.0000			.9110	.2710	.1170	.0380			.1760	
70.0000			.8500	.3000	.0310	.0310			.1780	
90.0000		1.3370	.7270	.2120	.0130	.0220			.2000	
120.0000			.5330	.1510	-.0180	.0570			.2690	
142.0000										.0560
150.0000			.4120	.0910	-.0590	.0290			.5720	
157.0000								.6430		
162.0000									.5670	
169.0000									.4920	
172.0000							.5580			
180.0000	1.6660	.8780	.2650	.0640	-.0940	-.0450			.6450	

MACH (1) = 2.498 BETA (1) = -6.520

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1200	.1230	.1160	.1100	.0970	.1000				
20.0000	.1280									
40.0000	.1390	.1430	.1450	.1300	.1490	.1480	.1340		.1280	.1090
55.0000	.1780									
70.0000	.1820	.0660	.0330	.0200	.0160		-.0440	-.0770	-.0810	-.0930
90.0000	.1850	.0440	-.0140	-.0210	-.0180		-.0420	-.0670	-.0710	.0100
105.0000									.0050	.0690
120.0000	.0850	-.0280	-.0560	-.0800	-.0990		-.1140	-.1190	.4190	.2540
135.0000									.0470	.0830
150.0000	-.0580	-.0790	-.0820	-.0750	-.0720		-.0880	-.0950	-.0260	-.0520
165.0000	-.0930	-.0600	-.0630	-.0610	-.0670		-.0730		-.0300	.0440
180.0000	-.1400	-.1410	-.1390	-.0520	.0130		.0060	-.0550	.7020	

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RB0806) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0380		-.1350
40.0000	.0700	.0390			-.0900
70.0000	-.0420	-.0490	-.0550		
90.0000	-.0210	-.0250	-.0270		
105.0000	-.0190	-.0190	-.0460		
110.0000				-.0510	
120.0000	.0160	-.0310	-.0430	-.0480	
135.0000	-.0780	-.1410	-.1050		
150.0000	-.1430	-.1550	-.1370		
165.0000	-.0070	-.0140	-.0430		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6750	1.3650	.7660	.1520	.1160	.1280			.1250	
20.0000			.7950	.2060	.1250	.1320			.1300	
40.0000			.8550	.2050	.1910	.1540			.1510	
55.0000			.8310	.2400	.1920	.1250			.1280	
70.0000			.7560	.2540	.1220	.1270			.1460	
90.0000		1.2550	.6420	.1540	.1100	.1440			.1520	
120.0000			.4740	.1140	.1000	.1550			.1740	
142.0000										.0240
150.0000			.3790	.0810	.0840	.1500			.5280	
157.0000								.6630		
162.0000									.5250	
169.0000									.4900	
172.0000							.6190			
180.0000	1.6750	.8880	.2670	.0710	.0780	.1220			.6630	

AMES 87-707 OA12 OPA ORBITER FUSELAGE (RB0806) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1230	.1280	.1230	.1100	.1020	.1060				
20.0000	.1260									
40.0000	.1350	.1210	.1300	.1200	.1370	.1380	.1250		.1290	.1160
55.0000	.1340									
70.0000	.1320	.0380	.0000	-.0150	-.0170		-.0730	-.1060	-.1090	-.1200
90.0000	.1490	.0140	-.0380	-.0410	-.0470		-.0720	-.0940	-.0980	-.0260
105.0000									-.0100	.0270
120.0000	.0630	-.0470	-.0720	-.0900	-.0950		-.1150	-.1150	.3230	.2020
135.0000									.1220	.1170
150.0000	-.0690	-.0790	-.0920	-.0840	-.0770		-.0650	-.0690	.0250	.0140
165.0000	-.1040	-.0840	-.0780	-.0760	-.0680		-.0580		.0170	.0640
180.0000	-.1370	-.1240	-.1080	-.0480	.0270		.0200	-.0480	.7370	

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0530		-.1300
40.0000	.0840	.0560			-.0850
70.0000	-.0650	-.0700	-.0860		
90.0000	-.0460	-.0490	-.0560		
105.0000	-.0470	-.0420	-.0700		
110.0000				-.0450	
120.0000	-.0190	-.0540	-.0640	-.0720	
135.0000	-.0660	-.1050	-.0770		
150.0000	-.0970	-.0880	-.0380		
165.0000	.0140	.0080	-.0480		

AMES 67-707 OA12 OEA ORBITER FUSELAGE (RBJ006) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8495 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000

ELEVON = .00F RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6810	1.3690	.7840	.1500	.1110	.1300			.1810	
20.0000			.7670	.1900	.1160	.1260			.1260	
40.0000			.7930	.1920	.1520	.1290			.1220	
55.0000			.7490	.2090	.1370	.0710			.0810	
70.0000			.6590	.2070	.0660	.0890			.0990	
90.0000		1.1680	.5480	.0920	.0570	.1100			.1510	
120.0000			.4040	.0700	.0570	.1080			.0960	
142.0000										-.0190
150.0000			.3390	.0550	.0630	.1130			.4670	
157.0000								.6500		
162.0000									.4810	
169.0000									.4850	
172.0000							.7460			
180.0000	1.6810	.8970	.2640	.0650	.0760	.1310			.5670	

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1240	.1270	.1210	.1070	.1030	.1080				
20.0000	.1210									
40.0000	.1000	.0850	.1010	.0990	.1190	.1220	.1140		.1210	.1140
55.0000	.0790									
70.0000	.0830	.0020	-.0310	-.0430	-.0490		-.1050	-.1290	-.1340	-.1260
90.0000	.0930	-.0170	-.0580	-.0590	-.0720		-.0970	-.1100	-.0880	-.0510
105.0000									-.0050	-.0080
120.0000	.0350	-.0720	-.0940	-.0940	-.0990		-.0780	-.0640	.1390	.1550
135.0000									.1010	.1430
150.0000	-.0880	-.0990	-.1080	-.0900	-.0650		-.0590	-.0590	.0640	.0710
165.0000	-.1230	-.1170	-.0970	-.079[illegible]	-.0550		-.0440		.0290	.1300
180.0000	-.1430	-.1220	-.1070	-.0410	.0350		.0310	-.0470	.7700	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C (RB@B06) (16 MAY 73)

AMES 87-707 OA12 02A ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .1300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0450		-.1230
40.0000	.0720	.0440			-.0790
70.0000	-.1160	-.1130	-.1190		
90.0000	-.0820	-.0910	-.0850		
105.0000	-.0830	-.0840	-.0910		
110.0000				-.0390	
120.0000	-.0520	-.0900	-.0770	-.0810	
135.0000	-.0520	-.0830	-.0390		
150.0000	-.0170	-.0190	-.0050		
165.0000	.0650	.0180	-.0290		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.020

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI									.1210	
.0000	1.6730	1.3620	.7720	.1520	.1110	.1260			.1210	
20.0000			.7360	.1760	.1060	.1220			.0980	
40.0000			.7300	.1750	.1050	.1060			.0380	
55.0000			.6690	.1790	.0850	.0200			.0510	
70.0000			.5660	.1650	.0170	.0470			.0360	
90.0000		1.0830	.4570	.0420	.0100	.0650			.1590	
120.0000			.3390	.0330	.0170	.0580				-.0540
142.0000									.3950	
150.0000			.3020	.0330	.0450	.1020		.6460		
157.0000									.4680	
162.0000									.4890	
169.0000							.6560			
172.0000									.6590	
180.0000	1.6730	.8940	.2620	.0600	.0730	.1160				

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0B06) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.020

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1230	.1250	.1210	.1080	.1030	.1040				
20.0000	.1140									
40.0000	.0620	.0400	.0630	.0730	.1030	.1100	.1030		.1150	.1130
55.0000	.0290									
70.0000	.0450	-.0240	-.0520	-.0620	-.0770		-.1260	-.1400	-.1460	-.1220
90.0000	.0560	-.0430	-.0780	-.0760	-.0950		-.1000	-.1020	-.0600	-.0800
105.0000									-.0250	-.0470
120.0000	.0070	-.0930	-.1050	-.1000	-.0840		-.0650	-.0660	.0550	.0850
135.0000									.1630	.1530
150.0000	-.1010	-.1290	-.1190	-.0820	-.0540		-.0490	-.0470	.1960	.1620
165.0000	-.1400	-.1380	-.1130	-.0740	-.0540		-.0470		.0370	.1[illegible]
180.0000	-.1420	-.1280	-.1100	-.0360	.0480		.0400	-.0470	.8030	

MACH (1) = 2.498 BETA (4) = 3.020

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0550		-.1290
40.0000	.0940	.0660			-.0850
70.0000	-.1270	-.1100	-.1450		
90.0000	-.0920	-.1000	-.1030		
105.0000	-.0930	-.0890	-.1030		
110.0000				-.0360	
120.0000	-.0540	-.0820	-.0800	-.0760	
135.0000	-.0550	-.0450	-.0250		
150.0000	-.0240	.0010	-.0050		
165.0000	.0930	.0570	-.0290		

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RB0B06) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000

ELEVCN = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.210

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6610	1.3470	.7300	.1470	.0980	.1220			.1190	
20.0000			.7040	.1580	.0980	.1120			.1140	
40.0000			.6660	.1560	.0970	.0790			.0640	
55.0000			.5920	.1490	.0410	-.0180			-.0120	
70.0000			.4830	.0420	-.0240	.0070			.0110	
90.0000		.9910	.3770	.0000	-.0270	.0210			.0110	
120.0000			.2830	-.0020	-.0110	.0240			.0680	-.0810
142.0000									.3220	
150.0000			.2660	.0140	.0260	.0690		.4860		
157.0000									.4550	
162.0000									.4780	
169.0000							.5630			
172.0000									.6370	
180.0000	1.6610	.8910	.2600	.0580	.0690	.0890				

MACH (1) = 2.498 BETA (5) = 6.210

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1220	.1260	.1240	.1130	.1030	.0970				
20.0000	.1070									
40.0000	.0170	-.0060	.0140	.0340	.0870	.0980	.1020		.1070	.1090
55.0000	-.0140									
70.0000	.0280	-.0350	-.0650	-.0810	-.0980		-.1300	-.1410	-.1440	-.1310
90.0000	.0450	-.0600	-.0900	-.0910	-.0970		-.0960	-.1090	-.0870	-.1010
105.0000									-.0400	-.0560
120.0000	-.0170	-.1090	-.1150	-.1080	-.0700		-.0700	-.0750	.0320	.0460
135.0000									.2920	.1980
150.0000	-.1170	-.1470	-.1280	-.0840	-.0570		-.0560	-.0580	.0720	.1740
165.0000	-.1550	-.1530	-.1260	-.0870	-.0670		-.0560		.0300	.1610
180.0000	-.1380	-.1420	-.1430	-.0310	.0560		.0510	-.0470	.8380	

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBQB06) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.210

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0390		-.1330
40.0000	.0800	.0510			-.0890
70.0000	-.1500	-.1390	-.1500		
90.0000	-.1170	-.1260	-.1180		
105.0000	-.1160	-.1200	-.1180		
115.0000				-.0430	
120.0000	-.0870	-.1040	-.0870	-.0940	
135.0000	-.0860	-.0730	-.0530		
150.0000	-.0870	-.0710	-.0220		
165.0000	.0000	-.0050	-.0200		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (1) = -6.750

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6660	1.3450	.7320	.1790	.1150	.1000			.0950	
20.0000			.8030	.2310	.1350	.1070			.1050	
40.0000			.9090	.2430	.2110	.1450			.1400	
55.0000			.9060	.2810	.2330	.1540			.1460	
70.0000			.8450	.3030	.1740	.1460			.1470	
90.0000		1.3350	.7220	.2350	.1560	.1350			.1660	
120.0000			.5290	.1800	.1350	.1520			.1600	
142.0000										.0820
150.0000			.4060	.1230	.1040	.1360			.4660	
157.0000								.5700		
162.0000									.5030	
169.0000									.4690	
172.0000							.5330			
180.0000	1.6660	.8700	.2810	.0930	.0800	.0910			.5910	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQBD6) (16 MAY 73)

AMES 87-707 C 12 OEA ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (1) = -6.750

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0950	.0980	.0960	.0930	.0930	.0970				
20.0000	.1000						.1280		.1110	.1100
40.0000	.1390	.1240	.1290	.1130	.1360	.1360				
55.0000	.1530						-.0110	-.0140	-.0340	-.0360
70.0000	.1550	.0770	.0440	.0270	.0250		-.0130	-.0280	-.0290	.0120
90.0000	.1540	.0670	.0230	.0040	.0000				-.0030	.0590
105.0000							-.0580	-.0640	.3720	.2380
120.0000	.1020	-.0010	-.0170	-.0310	-.0470				.0470	.0870
135.0000							-.0570	-.0650	-.0340	-.0330
150.0000	-.0010	-.0280	-.0390	-.0360	-.0400		-.0520		-.0380	-.0010
165.0000	-.0230	-.0230	-.0300	-.0260	-.0380		.5900	.1430	1.5310	
180.0000	-.0550	-.0640	-.0770	.3170	.6370					

MACH (2) = 3.501 BETA (1) = -6.750

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0060		-.0730
40.0000	.0350	.0060			-.0490
70.0000	-.0370	-.0350	-.0010		
90.0000	.0080	-.0200	.0230		
105.0000	.0860	.0180	.0230		
110.0000				-.0280	
120.0000	.0370	-.0040	.0170	.0110	
135.0000	-.0800	-.1080	-.0570		
150.0000	-.1160	-.1120	-.0590		
165.0000	-.0560	-.0390	-.0290		

AMES 87-707 OA12 CSA ORBITER FUSELAGE (RB0BD6) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.450

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7120	1.3800	.7470	.1810	.1170	.1010			.0980	
20.0000			.7950	.2240	.1270	.1070			.1030	
40.0000			.8670	.2400	.1810	.1300			.1240	
55.0000			.8430	.2610	.1860	.1070			.1010	
70.0000			.7640	.2680	.1280	.1030			.1100	
90.0000		1.2750	.6460	.1810	.1140	.0970			.1240	
120.0000			.4780	.1410	.1050	.1180			.1120	
142.0000										.0480
150.0000			.3820	.1090	.0920	.1190			.4160	
157.0000								.5700		
162.0000									.4630	
169.0000									.4660	
172.0000							.4990			
180.0000	1.7120	.8540	.2870	.0960	.0820	.0970			.6260	

MACH (2) = 3.501 BETA (2) = -3.450

X/LB	.2239	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0960	.0960	.0960	.0910	.0890	.0930				
20.0000	.0990									
40.0000	.1160	.0960	.1060	.0990	.1190	.1210	.1160		.0950	.0950
55.0000	.1030									
70.0000	.1060	.0380	.0080	-.0020	-.0090		-.0360	-.0240	-.0600	-.0600
90.0000	.1060	.0310	-.0060	-.0190	-.0260		-.0380	-.0520	-.0550	-.0230
109.0000									-.0300	.0140
120.0000	.0560	-.0210	-.0340	-.0420	-.0590		-.0700	-.0740	.2430	.1620
135.0000									.0500	.0720
150.0000	-.0220	-.0390	-.0470	-.0480	-.0520		-.0590	-.0640	-.0210	-.0270
165.0000	-.0370	-.0470	-.0450	-.0440	-.0480		-.0530		-.0290	.0040
180.0000	-.0610	-.0680	-.0630	.4280	.8050		.7540	.1850	1.6720	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0806) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.450

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0090		-.0760
40.0000	.0420	.0160			-.0490
70.0000	-.0580	-.0550	-.0300		
90.0000	-.0210	-.0400	-.0140		
105.0000	.0350	-.0130	-.0110		
110.0000				-.0320	
120.0000	.0000	-.0250	-.0110	-.0330	
135.0000	-.0680	-.0930	-.0460		
1[illegible].0000	-.0940	-.0990	-.0630		
165.0000	-.0430	-.0390	-.0320		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.160

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7230	1.3890	.7520	.1850	.1120	.1010			.0970	
20.0000			.7740	.2150	.1180	.1030			.0990	
40.0000			.8070	.2150	.1460	.1100			.1040	
55.0000			.7620	.2290	.1410	.0610			.0580	
70.0000			.6700	.2270	.0850	.0620			.0770	
90.0000		1.1880	.5570	.1270	.0740	.0700			.0820	
120.0000			.4130	.1040	.0720	.0870			.0650	
142.0000										.0170
150.0000			.3520	.0870	.0760	.0990			.3600	
157.0000								.5510		
162.0000									.4410	
169.0000									.4700	
172.0000							.5530			
180.0000	1.7230	.9000	.2860	.0890	.0820	.1030			.6490	

DATE 17 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB9806) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000

ELEVON = .000 RUDFLP = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0970	.1000	.0990	.0870	.0840	.0940				
20.0000	.0980						.1030		.0950	.0930
40.0000	.0850	.0700	.0810	.0790	.0930	.1050		-.0280	-.0740	-.0730
55.0000	.0640						-.0550	-.0680	-.0650	-.0580
70.0000	.0670	.0080	-.0140	-.0270	-.0330		-.0570		-.0290	-.0190
90.0000	.0550	.0020	-.0260	-.0360	-.0450			-.0640	.1110	.0990
105.0000							-.0560		.0500	.0930
120.0000	.0260	-.0330	-.0480	-.0540	-.0620			-.0520	.0140	.1220
135.0000							-.0510		-.0130	.0460
150.0000	-.0340	-.0500	-.0580	-.0590	-.0500		-.0440			
165.0000	-.0500	-.0610	-.0590	-.0550	-.0440		.9630	.2380	1.8220	
180.0000	-.0670	-.0640	-.0520	.5770	1.0160					

MACH (2) = 3.501 BETA (3) = -.160

X/LB	.8248	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0080		-.0750
40.0000	.0230	-.0010			-.0480
70.0000	-.1030	-.1000	-.0570		
90.0000	-.0800	-.0920	-.0400		
105.0000	-.0450	-.0690	-.0330		
110.0000				-.0130	
120.0000	-.0970	-.0750	-.0310	-.0350	
135.0000	-.0920	-.0970	-.0310		
150.0000	-.0860	-.0760	-.0160		
165.0000	-.0220	-.0360	-.0150		

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0B06) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.140

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7230	1.3890	.7540	.1880	.1220	.1060			.0980	
20.0000			.7490	.2030	.1220	.1010			.0980	
40.0000			.7440	.2030	.1220	.0920			.0840	
55.0000			.6830	.2040	.1020	.0280			.0290	
70.0000			.5800	.2040	.0500	.0360			.0470	
90.0000		1.0940	.4730	.0910	.0420	.0490			.0510	
120.0000			.3580	.0800	.0490	.0610			.0310	-.0050
142.0000									.3030	
150.0000			.3220	.0780	.0640	.0850		.5260		
157.0000									.4440	
162.0000									.4720	
169.0000							.4920			
172.0000									.6300	
180.0000	1.7230	.9050	.2920	.0970	.0870	.0990				

MACH (2) = 3.501 BETA (4) = 3.140

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0980	.1030	.1020	.0930	.0960	.0960				
20.0000	.0940									
40.0000	.0570	.0400	.0530	.0610	.0790	.0900	.0970		.0930	.0980
55.0000	.0300									
70.0000	.0320	-.0060	-.0230	-.0370	-.0480		-.0660	-.0220	-.0790	-.0740
90.0000	.0360	-.0150	-.0400	-.0460	-.0470		-.0690	-.0690	-.0510	-.0440
105.0000									-.0200	-.0280
120.0000	.0090	-.0400	-.0570	-.0550	-.0580		-.0530	-.0540	.0280	.0460
135.0000									.0690	.0840
150.0000	-.0400	-.0580	-.0690	-.0530	-.0420		-.0420	-.0420	.0250	.0940
165.0000	-.0620	-.0660	-.0670	-.0530	-.0420		-.0390		-.0050	.0790
180.0000	-.0630	-.0630	-.0620	.7720	1.2750		1.2090	.3800	1.9830	

AMES 87-707 OA12 OEA ORBITER FUSELAGE (RBQB06) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.140

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0110		-.0730
40.0000	.0440	.0260			-.0480
70.0000	-.1000	-.0910	-.0720		
90.0000	-.0810	-.0870	-.0590		
105.0000	-.0620	-.0730	-.0530		
110.0000				-.0090	
120.0000	-.0550	-.0680	-.0410	-.0410	
135.0000	-.0550	-.0690	-.0260		
150.0000	-.0560	-.0530	-.0130		
165.0000	.0160	-.0060	-.0060		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.445

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6700	1.3470	.7260	.1790	.1080	.1020			.0920	
20.0000			.7000	.1860	.1100	.0920			.0880	
40.0000			.6660	.1850	.1030	.0710			.0560	
55.0000			.5950	.1820	.0680	-.0040			.0020	
75.0000			.4880	.0890	.0170	.0090			.0170	
90.0000		.9750	.3850	.0490	.0100	.0250			.0170	
120.0000			.2950	.0450	.0220	.0320			.0070	
142.0000										-.0290
150.0000			.2770	.0540	.0470	.0590			.2400	
157.0000								.4720		
162.0000									.4340	
169.0000									.4430	
172.0000							.4690			
180.0000	1.6700	.8760	.2790	.0830	.0790	.0830			.5840	

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RB0806) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.440

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0920	.0950	.0950	.0930	.0940	.1010				
20.0000	.0830									
40.0000	.0250	.0010	.0100	.0250	.0590	.0740	.0780		.0770	.0870
55.0000	-.0100									
70.0000	.0020	-.0260	-.0420	-.0550	-.0670		-.0740	-.0210	-.0860	-.0810
90.0000	.0180	-.0300	-.0520	-.0570	-.0670		-.0690	-.0710	-.0640	-.0640
105.0000									-.0490	-.0430
120.0000	-.0150	-.0570	-.0640	-.0640	-.0640		-.0580	-.0590	.0110	.0110
135.0000									.1580	.1120
150.0000	-.0530	-.0740	-.0790	-.0650	-.0470		-.0530	-.0550	.0000	.0800
165.0000	-.0770	-.0780	-.0780	-.0640	-.0590		-.0540		-.0270	.0460
180.0000	-.0620	-.0710	-.0840	.9080	1.4370		1.3700	.4570	2.0730	

MACH (2) = 3.501 BETA (5) = 6.440

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0270		-.0770
40.0000	.0660	.0410			-.0530
70.0000	-.0800	-.0770	-.0730		
90.0000	-.0680	-.0710	-.0710		
105.0000	-.0680	-.0630	-.0660		
110.0000				-.0350	
120.0000	-.0670	-.0630	-.0520	-.0510	
135.0000	-.0640	-.0630	-.0330		
150.0000	-.0650	-.0630	-.0450		
165.0000	-.0070	-.0370	-.0350		

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C (RB0907) (16 MAY 73)

AMES 87-707 OA12 ORA ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5310	1.5690	1.0270	.3520	.3300	.3310			.3260	
20.0000			1.0940	.4480	.3520	.3420			.3470	
40.0000			1.1130	.4460	.4190	.3750			.3700	
55.0000			1.0220	.4910	.3490	.1670			.1570	
70.0000			.8710	.3620	.1800	.1700			.1660	
90.0000		1.2250	.6480	.1720	.1370	.1260			.1230	
120.0000			.3460	.0430	.0410	.0490			.2080	.0040
142.0000									.3340	
150.0000			.1990	-.0310	-.0210	.0510		.4370		
157.0000									.3590	
162.0000									.2870	
169.0000							.3680			
172.0000									.4120	
180.0000	1.5310	.6050	.0790	-.0640	-.0430	.0230				

MACH (1) = 2.498 BETA (1) = -6.480

X/LB	.2259	.2711	.3200	.3953	.5120	.5872	.6626	.7380	.7669	.8283
PHI										
.0000	.3280	.3300	.3230	.3100	.2930	.2930				
20.0000	.3400						.3440		.3580	.3410
40.0000	.3220	.2770	.3150	.3330	.3660	.3640				
55.0000	.1760						-.1260	-.1690	-.1730	-.1770
70.0000	.1620	.0540	.0310	.0190	-.0090		-.0490	-.0970	-.1240	-.1090
90.0000	.1430	.0290	-.0140	-.0230	-.0330				-.0410	.0380
105.0000							-.1470	-.1380	.4470	.1620
120.0000	.0680	-.1200	-.1390	-.1430	-.1540				.0060	-.0320
135.0000							-.1380	-.1190	-.0140	-.0110
150.0000	-.0860	-.1270	-.1220	-.1550	-.1560		-.1330		-.0720	.0060
165.0000	-.1200	-.0780	-.0940	-.1280	-.1680		-.0630	-.0890	.5220	
180.0000	-.1690	-.1570	-.1760	-.0830	-.0510					

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB9B07) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2320		-.1390
40.0000	.3050	.2490			-.0970
70.0000	-.1670	-.1660	-.1650		
90.0000	-.1070	-.1070	-.1050		
105.0000	-.1040	-.0960	-.1100		
110.0000				-.0610	
120.0000	-.0420	-.0880	-.0950	-.0660	
135.0000	-.1080	-.1320	-.1130		
150.0000	-.1160	-.1240	-.1290		
165.0000	-.0760	-.1260	-.1510		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.320

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5460	1.5760	1.0280	.3520	.3340	.3280			.3240	
20.0000			1.0660	.4250	.3410	.3350			.3360	
40.0000			1.0460	.4580	.3650	.3390			.3270	
55.0000			.9370	.4610	.2750	.0990			.0860	
70.0000			.7780	.3010	.1190	.1150			.1100	
90.0000		1.1530	.5640	.1200	.0260	.0810			.0790	
120.0000			.2960	.0120	.0130	.0540			.1470	
142.0000										-.0190
150.0000			.1740	-.0430	-.0300	.0530			.3150	
157.0000								.3690		
162.0000									.3360	
169.0000									.2920	
172.0000							.2350			
180.0000	1.5460	.6150	.0840	-.0190	-.0340	.0360			.4120	

AMES 67-707 OA12 O2A ORBITER FUSELAGE (R80807) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000

ELEVON = .000 RUDLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.320

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3330	.3300	.3230	.3010	.2850	.2950				
20.0000	.3310									
40.0000	.2640	.2150	.2480	.2900	.3320	.3430	.3240		.3380	.3300
55.0000	.0980									
70.0000	.1040	.0180	-.0040	-.0230	-.0730		-.1500	-.1800	-.1810	-.1800
90.0000	.1080	-.0030	-.0450	-.0570	-.0660		-.0690	-.1490	-.1730	-.1620
105.0000									-.0560	-.0360
120.0000	.0360	-.1210	-.1470	-.1520	-.1520		-.1310	-.1140	.3300	.1160
135.0000									.0390	.0020
150.0000	-.1010	-.1330	-.1330	-.1330	-.1610		-.1230	-.1060	.0320	.0140
165.0000	-.1310	-.0980	-.1030	-.1180	-.1200		-.1640		-.0870	.0100
180.0000	-.1670	-.1490	-.1320	-.0750	-.0360		-.0510	-.0820	.5500	

MACH (1) = 2.498 BETA (2) = -3.320

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2190		-.1390
40.0000	.2830	.2360			-.0990
70.0000	-.1900	-.1670	-.1790		
90.0000	-.1720	-.1640	-.1370		
105.0000	-.1280	-.1510	-.1400		
110.0000				-.0890	
120.0000	-.0990	-.1320	-.1250	-.0700	
135.0000	-.1430	-.1540	-.1300		
150.0000	-.1280	-.1500	-.1390		
165.0000	-.0960	-.1480	-.1600		

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB07) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.150

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5440	1.5810	1.0300	.3540	.3290	.3300			.3270	
20.0000			1.0910	.4030	.3310	.3260			.3300	
40.0000			.9730	.4040	.3170	.2980			.2810	
55.0000			.8450	.4050	.2140	.0310			.0160	
70.0000			.6750	.2480	.0670	.0570			.0600	
90.0000		1.0670	.4750	.0650	.0340	.0360			.0530	
125.0000			.2430	-.0210	-.0200	.0470			.0670	
142.0000										-.0540
150.0000			.1480	-.0590	-.0110	.0420			.2680	
157.0000								.2500		
162.0000									.2590	
169.0000									.2450	
172.0000							.1970			
180.0000	1.5440	.6120	.0830	-.0640	-.0150	.0520			.3820	

MACH (1) = 2.498 BETA (3) = -.150

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8203
PHI										
.0000	.3290	.3300	.3210	.2960	.2860	.2930				
20.0000	.3260									
40.0000	.2080	.1500	.1830	.2430	.2990	.3140	.3020		.3170	.3150
55.0000	.0040									
70.0000	.0520	-.0210	-.0380	-.0580	-.1380		-.1690	-.1900	-.1900	-.1890
90.0000	.0680	-.0330	-.0720	-.0850	-.1060		-.1460	-.1940	-.2000	-.2010
105.0000									-.1010	-.1250
120.0000	.0030	-.1190	-.1420	-.1630	-.1470		-.1150	-.1160	.1910	.0750
135.0000									.0590	.0300
150.0000	-.1170	-.1370	-.1420	-.1370	-.1740		-.1350	-.1100	.0100	.0390
165.0000	-.1460	-.1210	-.1200	-.1000	-.0920		-.1360		-.0870	.0040
180.0000	-.1620	-.1420	-.1030	-.0630	-.0160		-.0320	-.0780	.6050	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB07) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.9490 INCHES ZMRP = .0000 INCHES

SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.150

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2260		-.1410
40.0000	.2700	.2290			-.1050
70.0000	-.1930	-.1910	-.1790		
90.0000	-.2080	-.1920	-.1650		
105.0000	-.2070	-.1820	-.1660		
110.0000				-.0860	
120.0000	-.1480	-.1600	-.1430	-.0910	
135.0000	-.1470	-.1570	-.1300		
150.0000	-.1250	-.1260	-.1030		
165.0000	-.0400	-.0730	-.0990		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5410	1.5680	1.0090	.3490	.3270	.3150			.3250	
20.0000			1.0090	.3770	.3170	.3050			.3170	
40.0000			.8970	.3800	.2650	.2390			.2280	
55.0000			.7570	.3580	.1420	-.0320			-.0420	
70.0000			.5800	.1860	.0030	-.0090			.0110	
90.0000		.9890	.3960	.0170	-.0230	-.0140			.0190	
120.0000			.1960	-.0490	-.0580	-.0130			.1000	
142.0000										-.0650
150.0000			.1250	-.0720	-.0480	.0110			.2340	
157.0000								.3140		
162.0000									.2540	
169.0000									.2580	
172.0000							.2280			
180.0000	1.5410	.6150	.0820	-.0670	-.0490	.0270			.3910	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB07) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3290	.3270	.3220	.2990	.2850	.2900				
20.0000	.3120									
40.0000	.1470	.0930	.1280	.1900	.2620	.2880	.2860		.2980	.2990
55.0000	-.0540									
70.0000	.0110	-.0480	-.0660	-.0850	-.1940		-.1820	-.1940	-.1940	-.1900
90.0000	.0480	-.0510	-.0920	-.1060	-.1220		-.1920	-.2210	-.2150	-.2200
105.0000									-.1620	-.1940
120.0000	-.0390	-.1260	-.1430	-.1640	-.1460		-.1290	-.1320	.0600	.0200
135.0000									.0630	-.0020
150.0000	-.1240	-.1320	-.1450	-.1210	-.1330		-.1400	-.1240	-.0110	-.0080
165.0000	-.1600	-.1490	-.1180	-.0870	-.0870		-.1090		-.0780	.0620
180.0000	-.1690	-.1540	-.1340	-.0570	-.0090		-.0160	-.0760	.6360	

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2240		-.1410
40.0000	.2630	.2220			-.1040
70.0000	-.1970	-.1920	-.1770		
90.0000	-.2270	-.2190	-.1860		
105.0000	-.2250	-.2240	-.1940		
110.0000				-.0840	
120.0000	-.1680	-.1780	-.1370	-.1090	
135.0000	-.1660	-.1720	-.1410		
150.0000	-.1530	-.0950	-.0830		
165.0000	.0800	.0350	-.0170		

AMES 87-707 OA12 OEA ORBITER FUSELAGE (RB0807) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5250	1.5560	1.0030	.3480	.3250	.3160			.3220	
20.0000			.9560	.3580	.3010	.2950			.3070	
40.0000			.8310	.3560	.2230	.1960			.1800	
55.0000			.6750	.3030	.0910	-.0720			-.0810	
70.0000			.4960	.1410	-.0330	-.0530			-.0300	
90.0000		.9050	.3210	-.0230	-.0540	-.0390			-.0150	
120.0000			.1510	-.0740	-.0530	-.0320			.0040	
142.0000										-.0940
150.0000			.0990	-.0640	-.0520	-.0330			.2060	
157.0000								.2700		
162.0000									.2360	
169.0000									.2280	
172.0000							.3350			
180.0000	1.5250	.6100	.0850	-.0700	-.0580	-.0130			.3070	

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	.2259	.2711	.3200	.3933	.5120	.5873	.6626	.7380	.8469	.8283
PHI										
.0000	.3290	.2810	.3250	.2070	.2980	.2910				
20.0000	.3040									
40.0000	.0590	.0330	.0690	.1370	.2410	.2410	.2650		.2870	.2870
55.0000	-.0110									
70.0000	-.0350	-.0730	-.0910	-.1360	-.2080		-.1850	-.1910	.1660	-.1650
90.0000	.0190	-.0680	-.0990	-.1170	-.1440		-.2190	-.2130	-.1730	-.2020
105.0000									-.0910	-.1450
120.0000	-.0460	-.1240	-.1440	-.1560	-.1360		-.1330	-.1340	-.0756	-.1690
135.0000									.1100	-.0680
150.0000	-.1430	-.1400	-.1420	-.1000	-.1020		-.1370	-.1330	-.0937	-.0480
165.0000	-.1750	-.1570	-.1150	-.0840	-.0640		-.1000		-.0...	.0160
180.0000	-.1710	-.1670	-.1790	-.0530	.0030		-.0040	-.0660	.0...	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBQB07) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2280		-.1460
40.0000	.2600	.2140			-.1080
70.0000	-.1780	-.1590	-.1780		
90.0000	-.2010	-.2000	-.1860		
105.0000	-.2020	-.2010	-.1870		
110.0000				-.1210	
120.0000	-.2010	-.1990	-.1840	-.1320	
135.0000	-.2000	-.1490	-.1240		
150.0000	-.1350	-.0580	-.0430		
165.0000	.0100	-.0150	-.0540		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (1) = -6.710

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5230	1.5640	1.0110	.3600	.2910	.2800			.2840	
20.0000			1.0820	.4390	.3160	.2970			.3080	
40.0000			1.1070	.4410	.3770	.3470			.3500	
55.0000			1.0160	.4760	.3160	.1590			.1380	
70.0000			.8630	.3740	.1760	.1490			.1440	
90.0000		1.2130	.6420	.1980	.1350	.1100			.1080	
120.0000			.3520	.0800	.0620	.0500			.1020	.0120
142.0000									.2230	
150.0000			.2160	.0210	.0160	.0410		.3180		
157.0000									.2650	
162.0000									.2450	
169.0000							.0930			
172.0000									.3070	
180.0000	1.5230	.5930	.1180	-.0080	-.0030	.0160				

AMES 87-707 OA12 OBA ORBITER FUSELAGE (PBG307) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (1) = -6.710

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2990	.3040	.3070	.3030	.2910	.2870				
20.0000	.3100									
40.0000	.3220	.2720	.2980	.3170	.3580	.3660	.3510		.3170	.3120
55.0000	.1550									
70.0000	.1430	.0720	.0390	.0290	.0200		-.0450	-.0340	-.0750	-.0740
90.0000	.1180	.0420	.0070	.0010	.0000		-.0080	-.0330	-.0440	-.0390
105.0000									-.0070	.0730
120.0000	.0850	-.0450	-.0640	-.0650	-.0770		-.0720	-.0700	.4330	.2170
135.0000									.0260	.0220
150.0000	-.0330	-.0670	-.0680	-.0770	-.0860		-.0770	-.0700	-.0310	-.0330
165.0000	-.0570	-.0460	-.0580	-.0730	-.0880		-.0780		-.0470	-.0150
180.0000	-.0810	-.0840	-.0870	.1000	.2930		.2570	.0270	1.1790	

MACH (2) = 3.501 BETA (1) = -6.710

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1740		-.0750
40.0000	.2540	.2080			-.0490
70.0000	-.0840	-.0890	-.0660		
90.0000	-.0530	-.0430	-.0340		
105.0000	-.0500	-.0290	-.0320		
110.0000				-.0250	
120.0000	.0120	-.0300	-.0240	-.0290	
135.0000	-.0580	-.0920	-.0610		
150.0000	-.1020	-.1040	-.0770		
165.0000	-.0840	-.0740	-.0710		

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 OEA ORBITER FUSELAGE (RB0807) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.440

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5690	1.6070	1.0390	.3730	.2970	.2640			.2850	
20.0000			1.0840	.4350	.3120	.2930			.3040	
40.0000			1.0690	.4330	.3400	.3120			.3140	
55.0000			.9560	.4480	.2650	.1060			.0740	
70.0000			.7850	.3190	.1320	.0990			.0950	
90.0000		1.1680	.5710	.1530	.0970	.0690			.0690	
125.0000			.3130	.0610	.0380	.0430			.0690	-.0090
142.0000									.2070	
150.0000			.2030	.0130	.0040	.0360		.2970		
157.0000									.2600	
162.0000									.2490	
169.0000							.0760			
172.0000									.3310	
180.0000	1.5690	.6160	.1250	-.0050	-.0030	.0200				

MACH (2) = 3.501 BETA (2) = -3.440

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3000	.3090	.3110	.2990	.2870	.2780				
20.0000	.3070						.3260		.2960	.2930
40.0000	.2750	.2220	.2500	.2810	.3270	.3360				
55.0000	.0850						-.0660	-.0620	-.0830	-.0810
70.0000	.0910	.0320	.0070	-.0020	-.0270		-.0420	-.0700	-.0740	-.0810
90.0000	.0810	.0100	-.0170	-.0210	-.0260				-.0330	.0160
105.0000							-.0730	-.0640	.3590	.1490
120.0000	.0550	-.0530	-.0730	-.0750	-.0870				.0260	.0100
135.0000							-.0800	-.0710	-.0310	-.0160
150.0000	-.0450	-.0660	-.0720	-.0850	-.0900		-.0900		-.0590	-.0070
165.0000	-.0670	-.0550	-.0580	-.0690	-.0920		.2960	.0370	1.2290	
180.0000	-.0810	-.0790	-.0830	.1280	.3370					

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0807) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.440

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1670		-.0620
40.0000	.2410	.1980			-.0550
70.0000	-.1000	-.0980	-.0740		
90.0000	-.0890	-.0890	-.0690		
105.0000	-.0990	-.0740	-.0590		
110.0000				-.0640	
120.0000	-.0300	-.0650	-.0500	-.0650	
135.0000	-.0650	-.0970	-.0680		
150.0000	-.0980	-.1030	-.0760		
165.0000	-.0600	-.0350	-.0800		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.150

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5840	1.6180	1.0410	.3740	.2980	.2850			.2890	
20.0000			1.0570	.4170	.3050	.2850			.2950	
40.0000			.9960	.4160	.2980	.2710			.2690	
55.0000			.8650	.4170	.2100	.0590			.0240	
70.0000			.6910	.2600	.0890	.0560			.0550	
90.0000		1.0860	.4910	.1090	.0600	.0380			.0380	
120.0000			.2650	.0330	.0170	.0320			.0450	
142.0000										-.0180
150.0000			.1820	.0020	.0070	.0270			.1780	
157.0000								.0890		
162.0000									.2270	
169.0000									.2280	
172.0000							.0440			
180.0000	1.5840	.6200	.1290	-.0080	.0130	.0250			.3090	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C (RB0807) (16 MAY 73)

AMES 87-707 OA12 OEA ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.150

X/LB	.2239	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3010	.3070	.3100	.2950	.2800	.2750				
20.0000	.3010									
40.0000	.2220	.1670	.1940	.2340	.2810	.3060	.3040		.2760	.2760
55.0000	.0270									
70.0000	.0480	.0010	-.0200	-.0290	-.0790		-.0720	-.0630	-.0920	-.0900
90.0000	.0490	-.0150	-.0370	-.0470	-.0530		-.0730	-.0960	-.1000	-.1090
105.0000									-.0660	-.0520
120.0000	.0290	-.0620	-.0810	-.0860	-.0880		-.0750	-.0720	.1820	.0810
135.0000									.0120	.0120
150.0000	-.0550	-.0730	-.0800	-.0860	-.0930		-.0840	-.0790	-.0430	-.0030
165.0000	-.0720	-.0680	-.0710	-.0690	-.0780		-.1020		-.0660	-.0340
180.0000	-.0850	-.0810	-.0690	.1540	.3860		.3420	.0540	1.2830	

MACH (2) = 3.501 BETA (3) = -.150

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1650		-.0810
40.0000	.2280	.1880			-.0580
70.0000	-.1080	-.1070	-.0740		
90.0000	-.1240	-.1220	-.0820		
105.0000	-.1210	-.1070	-.0820		
110.0000				-.0580	
120.0000	-.0790	-.0970	-.0710	-.0730	
135.0000	-.0790	-.1080	-.0730		
150.0000	-.0999	-.1010	-.0670		
165.0000	-.0720	-.0790	-.0690		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0807) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.160

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5720	1.6050	1.0280	.3690	.2960	.2830			.2870	
20.0000			1.0100	.3930	.2890	.2740			.2830	
40.0000			.9150	.3920	.2530	.2290			.2200	
55.0000			.7750	.3770	.1580	.0200			-.0150	
70.0000			.5940	.2150	.0510	.0200			.0170	
90.0000		.9940	.4100	.0700	.0260	.0150			.0170	
120.0000			.2230	.0130	-.0020	.0200			.0260	
142.0000										-.0300
150.0000			.1610	-.0100	-.0020	.0150			.1200	
157.0000								.0970		
162.0000									.2210	
169.0000									.2360	
172.0000							.0550			
180.0000	1.5720	.6180	.1270	-.0100	-.0040	.0170			.3310	

MACH (2) = 3.501 BETA (4) = 3.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5973	.6626	.7380	.7869	.8283
PHI										
.0000	.2970	.3060	.3060	.2950	.2830	.2730				
20.0000	.2890									
40.0000	.1670	.1170	.1430	.1860	.2500	.2770	.2810		.2640	.2620
55.0000	-.0160									
70.0000	.0070	-.0240	-.0410	-.0520	-.1050		-.0780	-.0630	-.0880	-.0880
90.0000	.0230	-.0310	-.0500	-.0560	-.0650		-.1090	-.1140	-.1080	-.1080
105.0000									-.1060	-.1070
120.0000	-.0090	-.0650	-.0840	-.0890	-.0870		-.0880	-.0900	.0870	.0030
135.0000									-.0210	-.0090
150.0000	-.0610	-.0720	-.0790	-.0830	-.0970		-.0880	-.0850	-.0460	-.0300
165.0000	-.0820	-.0790	-.0730	-.0600	-.0650		-.0840		-.0640	-.0250
180.0000	-.0870	-.0840	-.0850	.1910	.4400		.3960	.0720	1.3390	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQ807) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.160

X/LB	.8848	.9262	.9655	1.0015	1.0392
PHI					
.0000			.1690		-.0020
40.0000	.2250	.1870			-.0570
70.0000	-.0980	-.0910	-.0740		
90.0000	-.1230	-.1230	-.0970		
105.0000	-.1210	-.1260	-.1020		
110.0000				-.0470	
120.0000	-.0820	-.0950	-.0760	-.0750	
135.0000	-.0810	-.1060	-.0790		
150.0000	-.1030	-.1000	-.0690		
165.0000	-.0330	-.0640	-.0500		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.470

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1953
PHI										
.0000	1.5270	1.5540	.9840	.3530	.2820	.2720			.2770	
20.0000			.9410	.3570	.2650	.2540			.2640	
40.0000			.8200	.3530	.2080	.1840			.1710	
55.0000			.6760	.3000	.1110	-.0120			-.0410	
70.0000			.4980	.1580	.0190	-.0120			-.0170	
90.0000		.8880	.3330	.0330	-.0020	.0020			.0010	
120.0000			.1800	-.0100	-.0200	.0040			.0070	
142.0000										-.0490
150.0000			.1350	-.0220	-.0200	.0010			.1390	
157.0000								.1780		
162.0000									.2310	
169.0000									.2190	
172.0000							.1330			
180.0000	1.3270	.6020	.1220	-.0130	-.0090	.0050			.3060	

AMES 67-70? OA12 O2A ORBITER FUSELAGE (RBQBD7) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.470

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2890	.2990	.3000	.2920	.2780	.2800				
20.0000	.2720									
40.0000	.1170	.0650	.0920	.1320	.2150	.2390	.2520		.2410	.2400
55.0000	-.0410									
70.0000	-.0240	-.0450	-.0610	-.0960	-.1110		-.0820	-.0600	-.0940	-.0920
90.0000	.0020	-.0440	-.0570	-.0740	-.0880		-.1170	-.1130	-.1100	-.1100
105.0000									-.1110	-.1100
120.0000	-.0270	-.0640	-.0820	-.0910	-.0870		-.0910	-.1000	-.0900	-.1090
135.0000									-.0240	-.0360
150.0000	-.0720	-.0820	-.0850	-.0800	-.0760		-.0920	-.0920	-.0640	-.0470
165.0000	-.0880	-.0850	-.0790	-.0610	-.0640		-.0860		-.0730	-.0380
180.0000	-.0840	-.0890	-.0960	.2270	.4950		.4550	.0970	1.3990	

MACH (2) = 3.501 BETA (5) = 6.470

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1560		-.0850
40.0000	.1980	.1470			-.0610
70.0000	-.1150	-.1010	-.0790		
90.0000	-.1380	-.1340	-.1010		
105.0000	-.1380	-.1370	-.1010		
110.0000				-.0590	
120.0000	-.1380	-.1380	-.1020	-.0970	
135.0000	-.1380	-.1320	-.1010		
150.0000	-.1390	-.1150	-.0620		
165.0000	-.0820	-.0830	-.0620		

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0808) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6780	1.0690	.4980	.0050	-.0230	-.0010			.0000	
20.0000			.5340	.0420	-.0180	-.0110			-.0090	
40.0000			.6860	.0880	.0690	.0070			-.0110	
55.0000			.7500	.1060	.1590	.1580			.1660	
70.0000			.7790	.1850	.1720	.1840			.1960	
90.0000		1.3520	.7660	.2450	.1860	.2100			.2000	
120.0000			.7190	.2440	.2480	.2900			.3990	
142.0000										.1200
150.0000			.6580	.2450	.2710	.3430			.8540	
157.0000								1.0110		
162.0000									.8520	
169.0000									.7720	
172.0000							.9760			
180.0000	1.6780	1.1440	.5030	.2440	.2430	.3220			.9990	

MACH (1) = 2.499 BETA (1) = -6.440

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0030	.0110	.0130	.0110	.0060	-.0020				
20.0000	-.0060						-.0100		-.0280	-.0400
40.0000	-.0210	-.0300	-.0520	-.0540	-.0120	-.0060				
55.0000	.1590						.0060	-.0310	-.0190	.0370
70.0000	.2090	.0690	.0100	.0440	.0640		.0150	-.0120	.0240	.0960
90.0000	.2090	.0500	.0120	.0130	.0440				.1120	.1450
105.0000							.0020	-.0100	.3520	.2620
120.0000	.1800	.0090	-.0160	-.0020	.0070				.3340	.3240
135.0000							-.0100	-.0160	.0740	.1220
150.0000	.0250	-.0050	-.0180	-.0190	-.0210		-.0040		.1000	.1950
165.0000	-.0220	-.0200	-.0080	-.0170	-.0190		-.1120	-.0680	-.0300	
180.0000	-.0830	-.0840	-.0630	-.0740	-.0940					

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RB8909) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.1030		-.1260
40.0000	-.1130	-.1140			-.0890
70.0000	.0060	-.0480	.0140		
90.0000	.0450	.0120	.0360		
105.0000	.0890	.0120	.0270		
115.0000				-.0570	
120.0000	.0500	.0110	.0500	-.0570	
135.0000	-.0540	-.0710	-.0090		
150.0000	-.1210	-.0700	-.0070		
165.0000	.0850	.1300	.0660		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7010	1.0820	.4910	.0080	-.0310	.0020			.0010	
20.0000			.5250	.0360	-.0310	-.0080			-.0040	
40.0000			.6420	.0340	.0420	-.0010			-.0150	
55.0000			.6830	.0610	.1070	.1090			.1150	
70.0000			.6890	.0910	.1140	.1330			.1370	
90.0000		1.2720	.6750	.1590	.1260	.1590			.1590	
120.0000			.6470	.2170	.1950	.2310			.3080	
142.0000										.0690
150.0000			.6170	.2170	.2470	.3020			.7780	
157.0000								.9530		
162.0000									.8040	
169.0000									.7790	
172.0000							.9680			
180.0000	1.7010	1.1600	.5050	.2420	.2470	.3230			1.0170	

AMES 87-707 OA12 CEA ORBITER FUSELAGE (RB0B08) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	.2259	.2711	.3200	.3953	.5120	.5973	.6626	.7380	.7869	.8283
PHI										
.0000	.0070	.0140	.0140	.0160	.0100	.0030				
20.0000	.0000									
40.0000	-.0240	-.0230	-.0360	-.0290	.0020	.0040	-.0020		-.0140	-.0260
55.0000	.1070									
70.0000	.1550	.0280	-.0260	.0060	.0230		-.0240	-.0500	-.0480	.0050
90.0000	.1480	.0070	-.0240	-.0240	.0090		-.0090	-.0340	-.0030	.0350
									.0720	.0730
105.0000										
120.0000	.1240	-.0290	-.0340	-.0350	-.0200		-.0090	-.0170	.3060	.1980
135.0000									.3580	.3230
150.0000	.0060	-.0370	-.0460	-.0400	-.0310		-.0150	-.0160	.0940	.1880
165.0000	-.0450	-.0610	-.0390	-.0350	-.0340		-.0150		.1030	.2280
180.0000	-.0870	-.0800	-.0620	-.0510	-.0510		-.0440	-.0390	.0540	

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0910		-.0930
40.0000	-.0960	-.0980			-.0760
70.0000	-.0300	-.0570	-.0140		
90.0000	.0090	-.0140	.0060		
105.0000	.0470	-.0160	-.0050		
110.0000				-.0440	
120.0000	-.0020	-.0180	.0230	-.0430	
135.0000	-.0520	-.0700	.0080		
150.0000	-.0850	-.0300	.0710		
165.0000	.1200	.1090	.0430		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0B08) (16 MAY 73)

REFERENCE DATA

SREF = 2.4215 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7040	1.0910	.4950	.0110	-.0280	.0020			.0030	
20.0000			.5110	.0290	-.0310	-.0030			.0020	
40.0000			.5920	.0280	.0230	-.0030			-.0040	
55.0000			.6120	.0480	.0640	.0670			.0710	
70.0000			.5990	.0780	.0630	.0820			.0930	
90.0000		1.1860	.5820	.1250	.0720	.0990			.1060	
120.0000			.5690	.1810	.1460	.1380			.2010	
142.0000										.0220
150.0000			.5700	.2040	.2160	.2640			.6890	
157.0000								.9050		
162.0000									.7470	
169.0000									.7670	
172.0000							.9740			
180.0000	1.7040	1.1690	.5040	.2460	.2460	.3090			1.0090	

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0080	.0150	.0150	.0170	.0120	.0060				
20.0000	.0040									
40.0000	-.0080	-.0100	-.0120	-.0090	.0110	.0090	.0030		-.0040	-.0120
55.0000	.0670									
70.0000	.1060	-.0090	-.0530	-.0260	-.0050		-.0390	-.0620	-.0570	-.0150
90.0000	.0890	-.0310	-.0520	-.0520	-.0210		-.0220	-.0430	-.0030	.0080
105.0000									.0630	.0350
120.0000	.0700	-.0640	-.0610	-.0580	-.0350		-.0120	-.0160	.1890	.1090
135.0000									.3440	.3260
150.0000	-.0260	-.0700	-.0680	-.0490	-.0380		-.0210	-.0130	.1330	.2600
165.0000	-.0670	-.0880	-.0620	-.0460	-.0370		-.0250		.1400	.2440
180.0000	-.0930	-.0720	-.0630	-.0430	-.0360		-.0300	-.0170	-.0030	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQBOA) (16 MAY 73)

AMES 87-707 OA12 02A ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0930		-.1060
40.0000	-.0860	-.0840			-.0740
70.0000	-.0650	-.0830	-.0350		
90.0000	-.0260	-.0520	-.0210		
105.0000	-.0140	-.0520	-.0290		
110.0000				-.0170	
120.0000	-.0690	-.0550	-.0030	-.0040	
135.0000	-.1700	-.0790	.0250		
150.0000	-.0400	-.0040	.0620		
165.0000	.1250	.0840	.0190		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI									.0020	
.0000	1.6960	1.0890	.4780	.0080	-.0300	.0020			.0010	
20.0000			.4880	.0200	-.0330	-.0040			-.0010	
40.0000			.5400	.0200	-.0020	-.0050			.0290	
55.0000			.5430	.0300	.0220	.0340			.0420	
70.0000			.5140	.0470	.0180	.0500			.1050	
90.0000		1.0950	.4940	.0700	.0280	.0580			.1080	
120.0000			.4980	.1330	.1010	.0940				-.0130
142.0000									.6010	
150.0000			.5220	.1780	.1870	.2330		.8500		
157.0000									.7190	
162.0000									.7690	
169.0000							.9590			
172.0000									1.0010	
180.0000	1.6960	1.1690	.5000	.2450	.2440	.3040				

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0808) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0080	.0130	.0140	.0160	.0120	.0020				
20.0000	.0040									
40.0000	-.0030	-.0040	.0090	-.0040	.0090	.0100	.0090		.0070	-.0040
55.0000	.0420									
70.0000	.0720	-.0300	-.0720	-.0470	-.0260		-.0420	-.0630	-.0600	-.0520
90.0000	.0360	-.0570	-.0760	-.0730	-.0330		-.0260	-.0420	.0080	.0030
105.0000									.0310	.0030
120.0000	.0160	-.0910	-.0480	-.0750	-.0470		-.0180	-.0220	.1240	.0700
135.0000									.4760	.3260
150.0000	-.0540	-.1000	-.0860	-.0610	-.0480		-.0310	-.0190	.1580	.4170
165.0000	-.0890	-.1050	-.0750	-.0500	-.0470		-.0440		.0410	.3300
180.0000	-.0920	-.0760	-.0610	-.0540	-.0490		-.0380	-.0390	.0230	

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0750		-.1090
40.0000	-.0550	-.0460			-.0750
70.0000	-.0510	-.0640	-.0430		
90.0000	-.0290	-.0640	-.0380		
105.0000	-.0210	-.0650	-.0450		
110.0000				-.0180	
120.0000	-.0930	-.0680	-.0100	-.0170	
135.0000	-.0940	-.0660	-.0090		
150.0000	-.0230	.0160	.0220		
165.0000	.1410	.0570	.0240		

AMES 67-707 OA12 O2A ORBITER FUSELAGE (RBOBO8) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVCN = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.290

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6840	1.0730	.4750	.0080	-.0300	-.0020			.0000	
20.0000			.4640	.0130	-.0400	-.0040			.0010	
40.0000			.4900	.0130	-.0240	-.0080			.0020	
55.0000			.4770	.0120	-.0120	.0100			.0080	
70.0000			.4340	.0130	-.0190	.0210			.0200	
90.0000		1.0050	.4100	.0220	-.0110	.0240			.0500	
120.0000			.4250	.0910	.0640	.0630			.0650	
142.0000										-.0470
150.0000			.4750	.1570	.1630	.1970			.5190	
157.0000								.8120		
162.0000									.6940	
169.0000									.7630	
172.0000							.9310			
180.0000	1.6840	1.1650	.4990	.2400	.2450	.3020			.9870	

MACH (1) = 2.498 BETA (5) = 6.290

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0020	.0140	.0140	.0100	.0050	.0000				
20.0000	.0030									
40.0000	-.0040	.0040	.0030	-.0040	.0100	.0080	.0070		.0100	.0010
55.0000	.0300									
70.0000	.0350	-.0510	-.0850	-.0620	-.0330		-.0390	-.0600	-.0590	-.0360
90.0000	.0030	-.0830	-.0930	-.0880	-.0400		-.0230	-.0370	.0000	-.0060
105.0000									.0220	-.0170
120.0000	-.0280	-.1160	-.1170	-.0900	-.0610		-.0240	-.0270	.1510	.0490
135.0000									.5510	.3470
150.0000	-.0770	-.1180	-.1000	-.0800	-.0590		-.0620	-.0620	.0790	.2050
165.0000	-.1120	-.1060	-.0850	-.0750	-.0940		-.0800		.0580	.2170
180.0000	-.0860	-.0880	-.0620	-.0670	-.0900		-.1040	-.0670	-.0230	

AMES 87-707 OA12 OPA ORBITER FUSELAGE (R6&/08) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = 10.000 RUDLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.495 BETA (5) = 6.290

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0500		-.1230
40.0000	-.0160	-.0090			-.0920
70.0000	-.0220	-.0080	-.0550		
90.0000	-.0090	-.0360	-.0515		
105.0000	-.0080	-.0450	-.0500		
115.0000				-.0440	
125.0000	-.0860	-.0730	-.0530	-.0470	
135.0000	-.0480	-.0630	-.0470		
150.0000	.0210	.0290	.0020		
165.0000	.0340	.0140	-.0320		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (1) = -6.670

X/LB	.0000	.0075	.0188	.0309	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6900	1.0640	.4760	.0620	.0120	.0080			-.0010	
20.0000			.5440	.0860	.0170	.0020			-.0050	
40.0000			.6960	.0850	.0840	.0250			.0100	
55.0000			.7550	.1190	.1580	.1350			.1320	
70.0000			.7760	.1810	.1650	.1540			.1600	
90.0000		1.3630	.7630	.2590	.1745	.1760			.1480	
120.0000			.7080	.2840	.2280	.2440			.3270	
142.0000										.1670
150.0000			.6450	.2560	.2410	.2860			.8360	
157.0000								.9560		
162.0000									.9330	
169.0000									.8760	
172.0000							.8850			
180.0000	1.6900	1.1440	.4980	.2530	.2150	.2440			1.1140	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB08) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (1) = -6.670

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0040	.0030	.0010	.0020	-.0030	-.0130				
20.0000	-.0080									
40.0000	.0050	.0000	-.0220	-.0370	-.0190	-.0150	-.0120		-.0190	-.0270
55.0000	.1330									
70.0000	.1710	.0840	.0340	.0510	.0610		.0180	-.0120	-.0100	.0130
90.0000	.1850	.0660	.0320	.0250	.0440		.0250	.0050	.0140	.0620
105.0000									.0820	.0910
120.0000	.1690	.0390	.0130	.0150	.0120		.0090	.0000	.2800	.2790
135.0000									.2800	.3280
150.0000	.0560	.0280	.0090	-.0040	-.0100		-.0060	-.0050	.0530	.1200
165.0000	.0450	.0060	.0120	-.0070	-.0100		-.0010		.0660	.1200
180.0000	-.0120	-.0250	-.0340	-.0500	-.0580		-.0680	-.0580	-.0390	

MACH (2) = 3.501 BETA (1) = -6.670

X/LB	.8848	.9282	.9639	1.0015	1.0392
PHI					
.0000			-.0590		-.0730
40.0000	-.0610	-.0630			-.0490
70.0000	.0370	.0240	.0360		
90.0000	.0620	.0670	.0740		
105.0000	.0770	.0820	.0750		
110.0000				.0120	
120.0000	.0560	.0340	.0930	.0830	
135.0000	.0040	-.0280	.0070		
150.0000	-.0520	-.0350	.0130		
165.0000	.0620	.1270	.0740		

DATE [illegible] 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBOBWC) (16 MAY 73)

REFERENCE DATA

SREF = 2.421[illegible] SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .03[illegible] SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION 1 :ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	.0000	.0075	.0180	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7320	1.0970	.4890	.0820	.0140	.0100			.0010	
20.0000			.5390	.0820	.0170	.0050			.0010	
40.0000			.6610	.1240	.0640	.0190			.0030	
55.0000			.6990	.1460	.1200	.0940			.0950	
70.0000			.6990	.1930	.1230	.1110			.1130	
90.0000		1.2970	.6820	.2050	.1310	.1340			.0980	
120.0000			.6480	.2440	.1880	.1940			.2460	.1210
142.0000									.7420	
150.0000			.6110	.2440	.2210	.2550		.9130		
157.0000									.8760	
162.0000									.8660	
169.0000							.9090			
172.0000									1.1270	
180.0000	1.7320	1.1730	.5040	.2480	.2200	.2900				

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0030	.0050	.0060	.0000	-.0020	-.0080				
20.0000	-.0040									
40.0000	-.0030	-.0060	-.0160	-.0280	-.0070	-.0060	-.0070		-.0130	-.0210
55.0000	.0830									
70.0000	.1150	.1490	.0040	.0150	.0230		-.0080	-.0320	-.0330	-.0140
90.0000	.1270	.0390	.0920	-.0070	.0130		-.0030	-.0200	-.0110	.0150
105.0000									.0410	.0410
120.0000	.1180	.0020	-.0140	-.0080	-.0170		-.0090	-.0140	.2400	.1680
135.0000									.2630	.2900
150.0000	.0380	.0040	-.0160	-.0250	-.0250		-.0170	-.0150	.0500	.1320
165.0000	-.0200	-.0180	-.0150	-.0270	-.0260		-.0210		.0510	.1310
180.0000	-.0190	-.0310	-.0360	-.0310	-.0370		-.0330	-.0350	.0010	

DATE 17 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0B08) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0690		-.0710
40.0000	-.0740	-.0730			-.0450
70.0000	-.0260	-.0350	-.0040		
90.0000	-.0020	.0000	.0310		
105.0000	.0080	.0080	.0340		
110.0000				.0210	
120.0000	-.0100	-.0260	.0370	.0430	
135.0000	-.0100	-.0520	-.0040		
150.0000	-.0600	-.0500	.0080		
165.0000	.0710	.0840	.0560		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.170

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7480	1.1060	.4960	.0680	.0160	.0110			.0070	
20.0000			.5240	.0780	.0160	.0080			.0050	
40.0000			.6100	.0750	.0480	.0130			.0050	
55.0000			.6290	.0920	.0850	.0600			.0630	
70.0000			.6110	.1100	.0810	.0780			.0720	
90.0000		1.2070	.5910	.1530	.0890	.0960			.0620	
120.0000			.5750	.1960	.1490	.1440			.1730	.0870
142.0000										
150.0000			.5710	.2230	.2010	.2250			.6600	
157.0000								.8940		
162.0000									.8260	
169.0000									.8540	
172.0000							.9630			
180.0000	1.7480	1.1890	.5130	.2480	.2270	.2600			1.1230	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0808) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPT CENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.170

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7769	.8283
PHI										
.0000	.0080	.0060	.0060	.0040	.0030	-.0030				
20.0000	.0020									
40.0000	.0000	-.0100	-.0100	-.0100	.0030	-.0020	-.0020		-.0080	-.0120
55.0000	.0490									
70.0000	.0770	.0150	-.0180	-.0080	.0010		-.0250	-.0430	-.0400	-.0240
90.0000	.0800	-.0020	-.0180	-.0270	-.0090		-.0180	-.0310	-.0190	-.0080
105.0000									.0360	.0200
120.0000	.0780	-.0180	-.0280	-.0290	-.0300		-.0150	-.0150	.1270	.0860
135.0000									.2280	.2740
150.0000	.0230	-.0190	-.0310	-.0340	-.0280		-.0210	-.0150	.0730	.1720
165.0000	.0000	-.0310	-.0300	-.0320	-.0280		-.0220		.0610	.1490
180.0000	-.0240	-.0240	-.0270	-.0270	-.0250		-.0240	-.0210	-.0120	

MACH (2) = 3.501 BETA (3) = -.170

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0360		-.0650
40.0000	-.0330	-.0100			-.0360
70.0000	-.0230	-.0300	-.0200		
90.0000	-.0210	-.0030	.0040		
105.0000	-.0190	-.0060	.0000		
110.0000				.0180	
120.0000	-.0220	-.0240	-.0080	.0120	
135.0000	-.0190	-.0250	-.0040		
150.0000	-.0190	-.0010	.0350		
165.0000	.0900	.0880	.0400		

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0808) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.190

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7430	1.1030	.4960	.0870	.0150	.0120			.0080	
20.0000			.5020	.0730	.0120	.0100			.0050	
40.0000			.5580	.0790	.0310	.0100			.0080	
55.0000			.5590	.0910	.0540	.0370			.0370	
70.0000			.5290	.0990	.0480	.0490			.0450	
90.0000		1.1070	.5010	.1090	.0560	.0630			.0290	
120.0000			.5010	.1600	.1130	.1100			.0880	
142.0000										.0520
150.0000			.5220	.2000	.1790	.2060			.5690	
157.0000								.8400		
162.0000									.8030	
169.0000									.8540	
172.0000							.9000			
180.0000	1.7430	1.1910	.5140	.2480	.2270	.2560			1.1140	

MACH (2) = 3.501 BETA (4) = 3.190

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0030	.0120	.0090	.0040	.0050	-.0020				
20.0000	.0090									
40.0000	-.0040	-.0010	.0010	-.0060	.0030	.0000	-.0020		-.0010	-.0040
55.0000	.0240									
70.0000	.0500	-.0070	-.0330	-.0230	-.0140		-.0360	-.0510	-.0480	-.0340
90.0000	.0380	-.0240	-.0340	-.0410	-.0280		-.0240	-.0350	-.0170	-.0050
105.0000									.0180	-.0050
120.0000	.0410	-.0350	-.0460	-.0470	-.0420		-.0220	-.0210	.0500	.0480
135.0000									.3820	.2660
150.0000	.0070	-.0340	-.0430	-.0450	-.0430		-.0310	-.0260	.0920	.2950
165.0000	-.0190	-.0390	-.0380	-.0340	-.0330		-.0370		-.0120	.1630
180.0000	-.0210	-.0250	-.0320	-.0260	-.0320		-.0320	-.0310	-.0030	

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C (RB3B08) (16 MAY 73)

AMES 87-707 OA12 ORA ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.190

X/LB	.8648	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0700		-.0720
40.0000	-.0550	-.0520			-.0440
70.0000	-.0600	-.0620	-.0310		
90.0000	-.0480	-.0390	-.0240		
105.0000	-.0510	-.0380	-.0240		
115.0000				.0110	
125.0000	-.0730	-.0760	-.0300	-.0250	
135.0000	-.0480	-.0560	-.0130		
150.0000	-.0090	-.0270	.0150		
165.0000	.0830	.0180	.0290		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.530

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI									.0030	
.0000	1.6980	1.0730	.4860	.0720	.0290	.0090			.0060	
20.0000			.4690	.0620	.0110	.0050			.0060	
40.0000			.4990	.0630	.0150	.0030			.0110	
55.0000			.4820	.0620	.0250	.0150			.0290	
70.0000			.4430	.0610	.0150	.0230			.0040	
90.0000		1.0000	.4170	.0620	.0230	.0310			.0340	
120.0000			.4200	.0630	.0770	.0720				.0220
142.0000			.4710	.1530	.1530	.1770			.4800	
150.0000								.7640		
157.0000									.7810	
162.0000									.8420	
169.0000							.8090			
172.0000									1.0970	
180.0000	1.6980	1.1640	.5020	.2170	.2190	.2380				

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0808) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.530

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0040	.0060	.0060	.0030	-.0020	-.0030				
20.0000	.0040									
40.0000	-.0080	-.0060	-.0040	-.0080	-.0050	-.0050	-.0080		-.0030	-.0050
55.0000	.0050									
70.0000	.0210	-.0300	-.0490	-.0390	-.0240		-.0410	-.0560	-.0490	-.0400
90.0001	.0010	-.0430	-.0530	-.0570	-.0430		-.0300	-.0370	-.0270	-.0210
105.0000									.0010	-.0300
120.0000	.0050	-.0540	-.0630	-.0640	-.0570		-.0350	-.0340	.1050	.0220
135.0000									.3480	.2510
150.0000	-.0130	-.0540	-.0580	-.0560	-.0410		-.0500	-.0560	.0090	.0890
165.0000	-.0390	-.0490	-.0450	-.0480	-.0590		-.0610		-.0120	.0620
180.0000	-.0160	-.0300	-.0420	-.0410	-.0560		-.0680	-.0580	-.0380	

MACH (2) = 3.501 BETA (5) = 6.530

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0800		-.0760
40.0000	-.0570	-.0560			-.0530
70.0000	-.0630	-.0690	-.0380		
90.0000	-.0620	-.0700	-.0300		
105.0000	-.0830	-.0900	-.0460		
110.0000				-.0320	
120.0000	-.0970	-.0980	-.0470	-.0440	
135.0000	-.0710	-.0790	-.0290		
150.0000	-.0180	-.0340	-.0070		
165.0000	-.0150	-.0510	-.0290		

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBQB09) (16 MAY 73)

REFERENCE DATA

SREF = 2.4215 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 10.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6600	1.3530	.7350	.1500	.1190	.1300			.1280	
20.0000			.8140	.2170	.1370	.1330			.1370	
40.0000			.9120	.3080	.2290	.1690			.1660	
55.0000			.9090	.3140	.2510	.1840			.1800	
70.0000			.8510	.3200	.1800	.1820			.1820	
90.0000		1.3330	.7270	.2170	.1660	.1720			.2050	
120.0000			.5360	.1540	.1400	.2010			.2710	
142.0000										.0810
150.0000			.4150	.0980	.1030	.1780			.5730	
157.0000								.6880		
162.0000									.5680	
169.0000									.4920	
172.0000							.6260			
180.0000	1.6600	.8760	.2680	.0680	.0750	.1150			.6480	

MACH (1) = 2.498 BETA (1) = -6.520

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1270	.1290	.1220	.1180	.1050	.1070				
20.0000	.1330									
40.0000	.1640	.1470	.1520	.1360	.1570	.1510	.1400		.1330	.1150
55.0000	.1850									
70.0000	.1890	.0750	.0390	.0260	.0230		-.0410	-.0740	-.0720	-.0880
90.0000	.1900	.0510	-.0070	-.0150	-.0100		-.0380	-.0610	-.0630	.0160
105.0000									.0110	.0770
120.0000	.0940	-.0220	-.0510	-.0720	-.0890		-.1070	-.1120	-.0330	.2660
135.0000									.0540	.0890
150.0000	-.0530	-.0700	-.0710	-.0660	-.0670		-.0840	-.0890	-.0220	-.0475
165.0000	-.0780	-.0550	-.0550	-.0540	-.0610		-.0670		-.0230	.0550
180.0000	-.1330	-.1330	-.1520	-.1390	-.1200		-.0950	-.0710	-.0560	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0809) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.98 BETA (1) = -6.520

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0530		-.1080
40.0000	.0620	.0690			-.0990
70.0000	-.0250	-.0230	-.0500		
90.0000	-.0090	-.0100	-.0230		
105.0000	-.0080	-.0060	-.0420		
110.0000				-.0370	
120.0000	.0260	-.0190	-.0370	-.0440	
135.0000	-.0890	-.1280	-.1020		
150.0000	-.1300	-.1430	-.1290		
165.0000	.0070	.0040	-.0380		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6790	1.3660	.7440	.1540	.1170	.1320			.1240	
20.0000			.7930	.2050	.1270	.1310			.1330	
40.0000			.8530	.2070	.1890	.1540			.1490	
55.0000			.8270	.2410	.1920	.1300			.1270	
70.0000			.7550	.2410	.1210	.1300			.1440	
90.0000		1.2560	.6380	.1520	.1100	.1450			.1550	
125.0000			.4760	.1220	.0990	.1580			.1760	
142.0000										.0250
150.0000			.3810	.0780	.0870	.1510		.6590	.5240	
157.0000									.5270	
162.0000									.4870	
169.0000							.6120			
172.0000									.6650	
180.0000	1.6790	.8880	.2690	.0700	.0790	.1220				

AMES 07-707 OA12 OPA ORBITER FUSELAGE (RB0859) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8497 INCHES YMRP = .0000 INCHES

BREF = 9.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0390 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	.2259	.2711	.3259	.3953	.5120	.5873	.6626	.7386	.7869	.8283
PHI										
.0000	.1270	.1290	.1250	.1160	.1050	.1080				
20.0000	.1270									
40.0000	.1340	.1190	.1350	.1250	.1410	.1430	.1290		.1330	.1190
55.0000	.1310									
70.0000	.1290	.0380	.0010	-.0110	-.0130		-.0680	-.1010	-.1040	-.1140
90.0000	.1470	.0170	-.0370	-.0390	-.0420		-.0680	-.0870	-.0900	-.0220
105.0000									-.1050	.0330
120.0000	.0650	-.0480	-.0710	-.0860	-.0890		-.1110	-.1120	.3300	.2080
135.0000									.1280	.1240
150.0000	-.0670	-.0730	-.0900	-.0810	-.0740		-.0660	-.0680	.0280	.0180
165.0000	-.0930	-.0850	-.0760	-.0730	-.0650		-.0580		.0230	.0690
180.0000	-.1370	-.1260	-.1040	-.0960	-.0840		-.0500	-.0450	-.0330	

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0590		-.1180
40.0000	.0870	.0760			-.0930
70.0000	-.0630	-.0650	-.0840		
90.0000	-.0630	-.0460	-.0520		
105.0000	.0030	-.0440	-.0670		
110.0000				-.0440	
120.0000	.0030	-.0520	-.0580	-.0690	
135.0000	-.1060	-.1060	-.0720		
150.0000	-.0990	-.0890	-.0340		
165.0000	.0150	.0130	-.0420		

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBQB09) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6820	1.3680	.7430	.1520	.1150	.1320			.1240	
20.0000			.7660	.1920	.1200	.1280			.1260	
40.0000			.7920	.2290	.1530	.1320			.1250	
55.0000			.7460	.2310	.1380	.0730			.0830	
70.0000			.6590	.1510	.0660	.0920			.0990	
90.0000		1.1700	.5470	.0960	.0580	.1130			.1040	
120.0000			.4080	.0720	.0570	.1130			.0980	
142.0000										-.0180
150.0000			.3420	.0570	.0660	.1180		.6470	.4660	
157.0000									.4830	
162.0000									.4870	
169.0000							.7380			
172.0000									.6650	
180.0000	1.6820	.8970	.2660	.0670	.0790	.1300				

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1290	.1260	.1200	.1100	.1060	.1090				
20.0000	.1220						.1160		.1230	.1160
40.0000	.1020	.0840	.1030	.1030	.1220	.1230				
55.0000	.0790						-.1020	-.1280	-.1320	-.1230
70.0000	.0800	.0000	-.0300	-.0420	-.0500		-.0920	-.1070	-.0850	-.0490
90.0000	.0910	-.0180	-.0580	-.0610	-.0730				.0010	-.0075
105.0000							-.0740	-.0610	.1460	.1590
120.0000	.0340	-.0730	-.0940	-.0930	-.0960				.1030	.1490
135.0000							-.0590	-.0560	.0650	.0770
150.0000	-.0860	-.0990	-.1090	-.0870	-.0600		-.0430		.0390	.1380
165.0000	-.1140	-.1190	-.1000	-.0750	-.0520		-.0340	-.0310	-.0240	
180.0000	-.1410	-.1250	-.1040	-.0690	-.0510					

AMES 87-707 OA12 CLA ORBITER FUSELAGE (RB0809) (16 MAY 93)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.492 BETA (3) = -.160

X/LB	.6848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0500		-.1260
40.0000	.0750	.0730			-.0950
75.0000	-.1130	-.1130	-.1160		
90.0000	-.0810	-.0900	-.0830		
105.0000	-.0350	-.0600	-.0910		
110.0000				-.0350	
120.0000	-.0360	-.0880	-.0770	-.0830	
135.0000	-.1070	-.0820	-.0400		
150.0000	-.0150	-.0200	-.0030		
165.0000	.0640	.0220	-.0310		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.490 BETA (4) = 3.020

X/LB	.0000	.0073	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6740	1.3590	.7330	.1520	.1110	.1270			.1220	
20.0000			.7330	.1740	.1080	.1220			.1200	
40.0000			.7230	.1680	.1160	.1040			.0960	
55.0000			.6640	.1870	.0870	.0200			.0380	
70.0000			.5650	.0890	.0170	.0440			.0520	
90.0000		1.0810	.4570	.0420	.0100	.0630			.0410	
120.0000			.3490	.0330	.0170	.0590			.1580	
142.4740										-.0530
157.4740			.3030	.0320	.0440	.1040			.3990	
157.4740								.6430		
162.4740									.4680	
169.4740									.4880	
172.4740							.6520			
180.0000	1.6740	.8930	.2650	.0600	.0760	.1140			.6600	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0809) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.020

X/LB	.2259	.2711	.3200	.3953	.5[illegible]	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1220	.1280	.1220	.1100	.1030	.1020				
20.0000	.1150									
40.0000	.0620	.0430	.0620	.0750	.1020	.1090	.1040		.1180	.1150
55.0000	.0290									
70.0000	.0440	-.0190	-.0470	-.0630	-.0780		-.1230	-.1450	-.1450	-.1200
90.0000	.0580	-.0430	-.0740	-.0750	-.0930		-.0950	-.1000	-.0540	-.0780
105.0000									-.0200	-.0450
120.0000	.0080	-.0920	-.1060	-.1000	-.0840		-.0640	-.0650	.0560	.0880
135.0000									.1670	.1560
150.0000	-.0990	-.1270	-.1190	-.0800	-.0510		-.0490	-.0440	.0980	.1700
165.0000	-.1330	-.1350	-.1120	-.0730	-.0500		-.0440		.0500	.1920
180.0000	-.1400	-.1290	-.1090	-.1020	-.0890		-.0560	-.0480	-.0380	

MACH (1) = 2.498 BETA (4) = 3.020

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0580		-.1390
40.0000	.0940	.0990			-.1040
70.0000	-.1260	-.1310	-.1400		
90.0000	-.0910	-.1000	-.1020		
105.0000	-.0910	-.0860	-.1030		
110.0000				-.0480	
120.0000	-.0540	-.0820	-.0800	-.0770	
135.0000	-.0540	-.0450	-.0230		
150.0000	-.0250	-.0040	-.0050		
165.0000	.0880	.0560	-.0300		

DATE 17 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0809) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6600	1.3470	.7470	.1500	.1010	.1260			.1190	
20.0000			.7030	.1580	.0990	.1140			.1120	
40.0000			.6630	.1520	.1010	.0800			.0650	
55.0000			.5910	.1520	.0430	-.0180			-.0070	
70.0000			.4850	.0420	-.0210	.0060			.0130	
90.0000		.9920	.3810	.0020	-.0280	.0210			.0110	
120.0000			.2850	.0050	-.0100	.0240			.0680	-.0810
142.0000									.3190	
150.0000			.2690	.0160	.0260	.0640		.4800		
157.0000									.4560	
162.0000									.4790	
169.0000							.5570			
172.0000									.6360	
180.0000	1.6600	.8930	.2620	.0570	.0700	.0910				

MACH (1) = 2.498 BETA (5) = 6.200

X/LB	.2259	.2711	.3250	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1220	.1280	.1210	.1130	.1050	.1000				
20.0000	.1060								.1080	.1100
40.0000	.0220	-.0090	.0110	.0360	.0890	.0970	.0990			
55.0000	-.0140						-.1310	-.1490	-.1430	-.1300
70.0000	.0280	-.0360	-.0660	-.0800	-.0970		-.0930	-.1070	-.0850	-.1000
90.0000	.0410	-.0620	-.0890	-.0890	-.1020				-.0380	-.0540
105.0000							-.0670	-.0720	.0340	.0430
120.0000	-.0180	-.1100	-.1130	-.1050	-.0700				.2950	.1990
135.0000							-.0520	-.0580	.0710	.1760
150.0000	-.1180	-.1460	-.1270	-.0830	-.0580		-.0550		.0420	.1740
165.0000	-.1540	-.1500	-.1260	-.0870	-.0670		-.0980	-.0760	-.0670	
180.0000	-.1370	-.1440	-.1450	-.1460	-.1210					

AMES 87-7D7 OA12 O2A ORBITER FUSELAGE (RB0B09) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0030		-.1430
40.0000	.0440	.0610			-.1120
70.0000	-.1690	-.1610	-.1510		
90.0000	-.1550	-.1650	-.1190		
105.0000	-.1320	-.1580	-.1190		
115.0000				-.0570	
125.0000	-.1220	-.1400	-.0900	-.0950	
135.0000	-.1050	-.1080	-.0570		
150.0000	-.0990	-.1140	-.0260		
165.0000	-.0280	-.0450	-.0280		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (1) = -6.750

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6570	1.3400	.7280	.2110	.1090	.0970			.0910	
20.0000			.7980	.2270	.1270	.1020			.1010	
40.0000			.9030	.3050	.2070	.1410			.1350	
55.0000			.9000	.3200	.2280	.1500			.1440	
70.0000			.8390	.2890	.1690	.1430			.1430	
90.0000		1.3290	.7160	.2300	.1530	.1300			.1610	
120.0000			.5240	.1680	.1320	.1480			.1570	
142.0000										.0770
150.0000			.4010	.1170	.1000	.1310			.4610	
157.0000								.5660		
162.0000									.4980	
169.0000									.4630	
172.0000							.5270			
180.0000	1.6570	.8620	.2760	.0880	.0760	.0880			.5870	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C (RB0809) (15 MAY 73)

AMES 87-707 OA12 OBA ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4215 SQ.FT. XMRP = 32.3600 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0370 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (1) = -6.750

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0920	.0940	.0930	.0910	.0910	.0880				
20.0000	.0950									
40.0000	.1350	.1210	.1240	.1130	.1320	.1320	.1270		.1070	.1000
55.0000	.1480									
70.0000	.1510	.0710	.0390	.0250	.0220		-.0150	-.0480	-.0390	-.0400
90.0000	.1500	.0640	.0200	.0020	-.0020		-.0150	-.0330	-.0320	.0080
105.0000									-.0040	.0530
120.0000	.0980	-.0030	-.0190	-.0340	-.0500		-.0600	-.0660	.3670	.2270
135.0000									.0440	.0830
150.0000	-.0450	-.0320	-.0400	-.0380	-.0440		-.0620	-.0680	-.0380	-.0360
165.0000	-.0240	-.0260	-.0350	-.0300	-.0410		-.0570		-.0410	.0000
180.0000	-.0580	-.0680	-.0810	-.0770	-.0860		-.0750	-.0700	-.0540	

MACH (2) = 3.501 BETA (1) = -6.750

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0160		-.0800
40.0000	.0550	.0400			-.0590
70.0000	-.0180	-.0150	-.0050		
90.0000	.0300	.0010	.0170		
105.0000	.0780	.0370	.0200		
110.0000				-.0310	
120.0000	.0550	.0150	.0160	.0070	
135.0000	-.0170	-.0860	-.0620		
150.0000	-.0940	-.0900	-.0620		
165.0000	-.0340	-.0200	-.0300		

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBQB09) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.450

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7120	1.3800	.7430	.1790	.1120	.0970			.0930	
20.0000			.7920	.1760	.1240	.1010			.0990	
40.0000			.8650	.1910	.1790	.1230			.1210	
55.0000			.8420	.2270	.1810	.1030			.0970	
70.0000			.7620	.2440	.1220	.0960			.1040	
90.0000		1.2770	.6450	.1790	.1070	.0940			.1180	
120.0000			.4740	.1490	.1000	.1160			.1050	.0430
142.0000									.4180	
150.0000			.3830	.1040	.0860	.1150		.5690		
157.0000									.4660	
162.0000									.4640	
169.0000							.5020			
172.0000									.6260	
180.0000	1.7120	.8930	.2860	.0920	.0800	.0950				

MACH (2) = 3.501 BETA (2) = -3.450

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0910	.0980	.0940	.0890	.0890	.0790				
20.0000	.0950									
40.0000	.1130	.0950	.1040	.0980	.1190	.1180	.1110		.0910	.0870
55.0000	.1500									
70.0000	.1040	.0360	.0100	-.0030	-.0100		-.0390	-.0670	-.0620	-.0590
90.0000	.1030	.0280	-.0050	-.0200	-.0300		-.0390	-.0530	-.0520	-.0230
105.0000									-.0280	.0130
120.0000	.0540	-.0190	-.0340	-.0440	-.0610		-.0720	-.0770	.2440	.1290
135.0000									.0490	.0700
150.0000	-.0220	-.0380	-.0490	-.0510	-.0560		-.0600	-.0650	-.0230	-.0240
165.0000	-.0340	-.0480	-.0490	-.0470	-.0490		-.0570		-.0320	.0050
180.0000	-.0610	-.0670	-.0680	-.0660	-.0700		-.0530	-.0530	-.0410	

AMES 87-757 OA12 OEA ORBITER FUSELAGE (PB2B09) (16 MAY 73)

REFERENCE DATA

SREF = 2.421[illegible] SQ.FT. XMRP = 32.9160 INCHES

LREF = 39.443 INCHES YMRP = .0000 INCHES

BREF = 39.843[illegible] INCHES ZMRP = .0000 INCHES

SCALE = .03[illegible] SCALE

PARAMETRIC DATA

ALPHA = 10.[illegible] RUDDER = .000

ELEVON = 20.[illegible] RUDFLR = 40.[illegible]

SECTION (1,ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.450

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0090		-.0810
40.0000	.0420	.0330			-.0590
70.0000	-.0870	-.0850	-.0970		
90.0000	-.0200	-.0390	-.0130		
108.0000	.0310	-.0090	-.0020		
110.0000				-.0310	
120.0000	.0030	-.0230	-.0110	-.0190	
135.0000	-.0330	-.0890	-.0480		
150.0000	-.0920	-.0970	-.0500		
165.0000	-.0410	-.0360	-.0330		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.160

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1906	.1501	.1732	.1958
PHI										
.0000	1.7250	1.3910	.7550	.1880	.1220	.1050			.0980	
20.0000			.7770	.2210	.1290	.1030			.1010	
40.0000			.8190	.2290	.1540	.1130			.1050	
55.0000			.7630	.2290	.1430	.0640			.0610	
75.0000			.6740	.2390	.0880	.0660			.0780	
90.0000		1.1900	.5620	.1340	.0760	.0730			.0860	
120.0000			.4180	.1060	.0760	.0920			.0840	
142.0000										.0180
151.[illegible]			.3550	.0970	.0800	.0980			.3610	
157.[illegible]								.5550		
162.[illegible]									.4430	
169.[illegible]									.4680	
172.[illegible]							.5570			
180.[illegible]	1.7250	.9030	.2910	.0970	.0800	.1050			.6510	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB09) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0980	.1000	.0970	.0920	.0900	.0860				
20.0000	.0980									
40.0000	.0870	.0700	.0810	.0830	.1020	.1070	.1060		.0960	.0860
55.0000	.0640									
70.0000	.0700	.0110	-.0120	-.0230	-.0280		-.0550	-.0750	-.0700	-.0720
90.0000	.0640	.0010	-.0260	-.0330	-.0400		-.0560	-.0670	-.0620	-.0350
105.0000									-.0250	-.0120
120.0000	.0240	-.0310	-.0440	-.0480	-.0580		-.0650	-.0620	.1130	.1170
135.0000									.0510	.0850
150.0000	-.0340	-.0470	-.0530	-.0530	-.0480		-.0500	-.0510	.0150	.0240
165.0000	-.0450	-.0620	-.0520	-.0510	-.0430		-.0400		-.0080	.0480
180.0000	-.0660	-.0630	-.0560	-.0470	-.0430		-.0370	-.0360	-.0270	

MACH (2) = 3.501 BETA (3) = -.160

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0090		-.0750
40.0000	.0220	.0190			-.0560
70.0000	-.1020	-.1080	-.0560		
90.0000	-.0770	-.0900	-.0400		
105.0000	-.0430	-.0660	-.0310		
110.0000				-.0170	
120.0000	-.0560	-.0750	-.0300	-.0360	
135.0000	-.0550	-.0960	-.0270		
150.0000	-.0840	-.0720	-.0170		
165.0000	-.0220	-.0330	-.0170		

AMES 87-707 OA12 OEA ORBITER FUSELAGE (RBQB09) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.130

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7170	1.3850	.7800	.1840	.1130	.1010			.0940	
20.0000			.7430	.1990	.1110	.0970			.0940	
40.0000			.7390	.1990	.1210	.0900			.0810	
55.0000			.6780	.2020	.0990	.0200			.0270	
70.0000			.5770	.1930	.0470	.0310			.0440	
90.0000		1.0880	.4660	.0840	.0380	.0450			.0450	
120.0000			.3510	.0710	.0450	.0550			.0250	
142.0000										-.0130
150.0000			.3140	.0700	.0600	.0780			.2960	
157.0000								.5170		
162.0000									.4360	
169.0000									.4550	
172.0000							.4800			
180.0000	1.7170	.8980	.2840	.0890	.0800	.0950			.6210	

MACH (2) = 3.501 BETA (4) = 3.130

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0920	.0980	.0940	.0880	.0860	.0820				
20.0000	.0870									
40.0000	.0500	.0340	.0460	.0580	.0760	.0880	.0910		.0860	.0820
55.0000	.0240									
70.0000	.0290	-.0150	-.0330	-.0410	-.0520		-.0710	-.0900	-.0850	-.0810
90.0000	.0270	-.0210	-.0450	-.0480	-.0580		-.0730	-.0790	-.0570	-.0490
105.0000									-.0260	-.0340
120.0000	.0000	-.0480	-.0570	-.0580	-.0650		-.0580	-.0590	.0240	.0380
135.0000									.0610	.0760
150.0000	-.0450	-.0640	-.0700	-.0610	-.0450		-.0460	-.0470	.0170	.0870
165.0000	-.0650	-.0720	-.0700	-.0570	-.0470		-.0460		-.0110	.0740
180.0000	-.0670	-.0680	-.0680	-.0690	-.0670		-.0550	-.0500	-.0440	

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AMES 87-707 OA12 02A ORBITER FUSELAGE (R80B09) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.130

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0040		-.0650
40.0000	.0410	.0410			-.0650
70.0000	-.1040	-.1120	-.0750		
90.0000	-.0870	-.0960	-.0620		
105.0000	-.0710	-.0810	-.0550		
110.0000				-.0130	
120.0000	-.0630	-.0750	-.0440	-.0460	
135.0000	-.0620	-.0760	-.0320		
150.0000	-.0530	-.0620	-.0320		
165.0000	.0100	-.0150	-.0140		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.440

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1959
PHI										
.0000	1.6660	1.3460	.7240	.1770	.1140	.0990			.0020	
20.0000			.6970	.1830	.1050	.0890			.0870	
40.0000			.6650	.1830	.0930	.0680			.0570	
55.0000			.5930	.1830	.0630	-.0090			.0030	
70.0000			.4850	.1440	.0160	.0070			.0160	
90.0000		.9740	.3830	.0480	.0080	.0220			.0160	
120.0000			.2950	.0410	.0180	.0280			.0080	
142.0000										-.0300
150.0000			.2750	.0510	.0450	.0560			.2380	
157.0000								.4710		
162.0000									.4320	
169.0000									.4370	
172.0000							.4680			
180.0000	1.6660	.8710	.2760	.0810	.0740	.0790			.5820	

AMES 87-700 OA12 02A ORBITER FUSELAGE (RB3B09) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.440

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0920	.0950	.0930	.0970	.0970	.0860				
25.0000	.0830									
40.0000	.0240	.0010	.0090	.0270	.0600	.0700	.0780		.0750	.0740
55.0000	-.0120									
70.0000	.0030	-.0290	-.0430	-.0530	-.0660		-.0770	-.0950	-.0850	-.0840
90.0000	.0160	-.0310	-.0520	-.0560	-.0660		-.0720	-.0780	-.0640	-.0660
105.0000									-.0440	-.0430
120.0000	-.0170	-.0590	-.0650	-.0640	-.0580		-.0620	-.0610	.0050	.0150
135.0000									.1560	.1090
150.0000	-.0530	-.0760	-.0760	-.0640	-.0500		-.0560	-.0600	-.0025	.0790
165.0000	-.0750	-.0830	-.0760	-.0630	-.0600		-.0590		-.0220	.0490
180.0000	-.0640	-.0720	-.0810	-.0800	-.0860		-.0760	-.0670	-.0570	

MACH (2) = 3.501 BETA (5) = 6.440

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0140		-.0830
40.0000	.0450	.0480			-.0680
70.0000	-.1000	-.0740	-.0790		
90.0000	-.0870	-.0890	-.0730		
105.0000	-.0850	-.0850	-.0690		
110.0000				-.0410	
120.0000	-.0660	-.0750	-.0540	-.0570	
135.0000	-.0650	-.0660	-.0410		
150.0000	-.0650	-.0760	-.0480		
165.0000	-.0640	-.0560	-.0410		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0B10) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8495 INCHES YMRP = .0000 INCHES
BREF = 39.8495 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5250	1.5640	1.0250	.3570	.3320	.3280			.3240	
20.0000			1.0900	.4490	.3540	.3450			.3450	
40.0000			1.1080	.5190	.4200	.3770			.3720	
55.0000			1.0190	.4820	.3520	.1700			.1620	
70.0000			.8730	.3820	.1860	.1710			.1700	
90.0000		1.2240	.8320	.1780	.1400	.1280			.1260	
120.0000			.3480	.0470	.0450	.0530			.2100	
142.0000										.0080
150.0000			.2030	-.0240	-.0170	.0510			.3360	
157.0000								.4380		
162.0000									.3590	
169.0000									.2930	
172.0000							.4010			
180.0000	1.5250	.6060	.0830	-.0570	-.0410	.0280			.4170	

MACH (1) = 2.498 BETA (1) = -6.480

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3300	.3340	.3260	.3120	.2960	.2980				
20.0000	.3400									
40.0000	.3200	.2820	.3180	.3340	.3720	.3710	.3480		.3650	.3400
55.0000	.1780									
70.0000	.1660	.0590	.0340	.0250	-.0040		-.1220	-.1670	-.1700	-.1700
90.0000	.1480	.0360	-.0100	-.0193	-.0270		-.0440	-.0900	-.1190	-.1100
105.0000									-.0390	.0440
120.0000	.0720	-.1160	-.1340	-.1360	-.1520		-.1430	-.1330	.4470	.1760
135.0000									.0090	-.0290
150.0000	-.0850	-.1240	-.1150	-.1470	-.1520		-.1300	-.1110	-.0100	-.0060
165 0000	-.1180	-.0720	-.0900	-.1220	-.1540		-.1250		-.0670	.0130
180.0000	-.1650	-.1520	-.1720	-.1360	-.0910		-.1140	-.1110	-.1040	

AMES 87-707 OA12 OEA ORBITER FUSELAGE (PBQB10) (16 MAY 73)

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0500 SCALE

PARAMETRIC DATA

ALPHA = 25.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.490 BETA (1) = -6.480

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2380		-.1260
40.0000	.3090	.2890			-.1230
70.0000	-.1180	-.1510	-.1660		
90.0000	-.0960	-.0980	-.1020		
105.0000	-.0960	-.0910	-.1040		
115.0000				-.1270	
120.0000	-.0380	-.0790	-.0910	-.1260	
135.0000	-.0980	-.1230	-.1100		
150.0000	-.1110	-.1170	-.1280		
165.0000	-.0670	-.1190	-.1550		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.490 BETA (2) = -3.320

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5430	1.5760	.9850	.3550	.3330	.3300			.3300	
20.0000			1.0640	.4310	.3420	.3390			.3410	
40.0000			1.0410	.4660	.3660	.3410			.3290	
55.0000			.9310	.4450	.2770	.0960			.0910	
70.0000			.7760	.3070	.1210	.1160			.1160	
90.0000		1.1490	.5630	.1190	.0860	.0810			.0850	
120.0000			.2940	.0140	.0140	.0580			.1500	
142.0000										-.0140
150.0000			.1760	-.0400	-.0280	.0550			.3200	
157.0000								.3710		
162.0000									.3440	
169.0000									.3010	
172.0000							.2390			
180.0000	1.5430	.6140	.0850	-.0580	-.0310	.0400			.4170	

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AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBQB1D) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.320

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3320	.3340	.3260	.3080	.2920	.3030				
20.0000	.3350						.3330		.3400	.3340
40.0000	.2660	.2190	.2500	.2990	.3410	.3500				
55.0000	.0980						-.1450	-.1780	-.1790	-.1780
70.0000	.1090	.0200	-.0040	-.0160	-.0650		-.0870	-.1440	-.1680	-.1570
90.0000	.1100	.0010	-.0450	-.0510	-.0590				-.0530	-.0340
105.0000							-.1270	-.1140	.3340	.1180
120.0000	.0370	-.1150	-.1400	-.1480	-.1530				.0410	.0010
135.0000							-.1180	-.1000	.0040	.0180
150.0000	-.1000	-.1300	-.1280	-.1300	-.1570		-.1600		-.0830	.0180
165.0000	-.1230	-.0930	-.0990	-.1140	-.1180		-.0860	-.0960	-.1000	
180.0000	-.1650	-.1490	-.1310	-.1030	-.0700					

MACH (1) = 2.498 BETA (2) = -3.320

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2390		-.1370
40.0000	.3000	.2890			-.1090
70.0000	-.1720	-.1600	-.1780		
90.0000	-.1540	-.1450	-.1320		
105.0000	-.1200	-.1340	-.1340		
110.0000				-.0820	
120.0000	-.0850	-.1160	-.1200	-.1220	
135.0000	-.1370	-.1350	-.1260		
150.0000	-.1110	-.1320	-.1340		
165.0000	-.0790	-.1320	-.1490		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (PB0810) (16 MAY 73)

REFERENCE DATA

SREF = 2.4217 SQ.FT. XMRP = 32.3000 INCHES
LREF = 35.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CF

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.0000	.0075	.0188	.0439	.0802	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5450	1.5810	1.0280	.3520	.3270	.3320			.3280	
20.0000			1.0320	.4040	.3320	.3280			.3310	
40.0000			.9810	.4100	.3190	.3000			.2830	
55.0000			.8450	.3820	.2170	.0350			.0170	
70.0000			.6750	.2190	.0670	.0610			.0580	
90.0000		1.0680	.4740	.0660	.0360	.0400			.0530	
120.0000			.2430	-.0220	-.0170	.0500			.0680	
142.0000										-.0510
150.0000			.1500	-.0570	-.0100	.0470			.2780	
157.0000								.2620		
162.0000									.2650	
169.0000									.2500	
172.0000							.2330			
180.0000	1.5450	.6130	.0820	-.0640	-.0130	.0580			.3920	

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5973	.6626	.7380	.7869	.8283
PHI										
.0000	.3350	.3340	.3240	.2930	.2880	.3000				
20.0000	.3280									
40.0000	.2260	.1560	.1910	.2430	.3010	.3180	.3090		.3180	.3150
55.0000	.0050									
70.0000	.0530	-.0150	-.0370	-.0530	-.1760		-.1650	-.1890	-.1890	-.1870
90.0000	.0720	-.0280	-.0710	-.0820	-.0990		-.1420	-.1920	-.1990	-.1980
105.0000									-.0990	-.1230
120.0000	.0080	-.1150	-.1420	-.1520	-.1470		-.1110	-.1140	.1870	.0800
135.0000									.0650	.0320
150.0000	-.1160	-.1340	-.1420	-.1340	-.1700		-.1310	-.1080	.0130	.0450
165.0000	-.1340	-.1190	-.1180	-.0990	-.0900		-.1310		-.0820	.0090
180.0000	-.1300	-.1460	-.1020	-.0780	-.0560		-.0670	-.0750	-.0720	

AMES 67-707 OA12 O2A ORBITER FUSELAGE (RB0B10) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2420		-.1450
40.0000	.2850	.2880			-.1170
70.0000	-.1790	-.1740	-.1840		
90.0000	-.1950	-.1760	-.1630		
105.0000	-.1910	-.1680	-.1670		
110.0000				-.0990	
120.0000	-.1380	-.1480	-.1410	-.1330	
135.0000	-.1360	-.1440	-.1290		
150.0000	-.1110	-.1130	-.1040		
165.0000	-.0270	-.0590	-.1030		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5390	1.5700	1.0210	.3530	.3340	.3280			.3270	
20.0000			.9960	.3830	.3230	.3160			.3160	
40.0000			.9010	.3660	.2710	.2520			.2300	
55.0000			.7620	.3660	.1550	-.0170			-.0410	
70.0000			.5860	.1630	.0190	.0090			.0140	
90.0000		.9890	.4010	.0200	-.0060	.0010			.0200	
120.0000			.2000	-.0450	-.0380	.0030			.1110	
142.0000										-.0680
150.0000			.1280	-.0680	-.0310	.0270			.2320	
157.0000								.3200		
162.0000									.2490	
169.0000							.2310		.2600	
172.0000										
180.0000	1.5390	.6140	.0850	-.0630	-.0280	.0490			.3920	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (R60B10) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

EL_VON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3310	.3320	.3260	.3010	.2880	.2910				
20.0000	.3130									
40.0000	.1490	.0920	.1280	.1910	.2640	.2910	.2920		.3040	.3010
55.0000	-.0560									
70.0000	.0210	-.0460	-.0640	-.0850	-.1920		-.1800	-.2020	-.1930	-.1890
90.0000	.0520	-.0480	-.0890	-.1050	-.1160		-.1930	-.2220	-.2130	-.2170
105.0000									-.1600	-.1920
120.0000	-.0380	-.1240	-.1420	-.1620	-.1450		-.1250	-.1290	.0660	.0220
135.0000									.0650	.0020
150.0000	-.1190	-.1300	-.1420	-.1190	-.1290		-.1370	-.1220	-.0100	-.0040
165.0000	-.1520	-.1400	-.1190	-.0860	-.0840		-.1050		-.0730	.0740
180.0000	-.1670	-.1530	-.1350	-.1090	-.0810		-.0940	-.1080	-.1030	

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2290		-.1490
40.0000	.2650	.2860			-.1190
70.0000	-.1980	-.1740	-.1850		
90.0000	-.2680	-.2180	-.1880		
105.0000	-.2240	-.2230	-.1940		
110.0000				-.0950	
120.0000	-.1660	-.1770	-.1380	-.1340	
135.0000	-.1650	-.1740	-.1390		
150.0000	-.1540	-.0920	-.0850		
165.0000	.0780	.0380	-.0170		

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB10) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5200	1.5520	1.0020	.3480	.3270	.3270			.3240	
20.0000			.9500	.3580	.3070	.3050			.3090	
40.0000			.8260	.3120	.2280	.2060			.1850	
55.0000			.6720	.3120	.1050	-.0590			-.0800	
70.0000			.4970	.1110	-.0200	-.0370			-.0270	
90.0000		.9040	.3220	-.0190	-.0410	-.0230			-.0150	
120.0000			.1540	-.0680	-.0390	-.0130			.0910	
142.0000										-.0920
150.0000			.1040	-.0810	-.0350	-.0140			.2150	
157.0000								.2730		
162.0000									.3010	
169.0000									.2900	
172.0000							.3660			
180.0000	1.5200	.6080	.0890	-.0660	-.0400	-.0020			.3890	

MACH (1) = 2.498 BETA (5) = 6.240

X/LS	.2259	.2711	.3200	.3953	.5120	.6173	.6626	.7380	.7869	.8283
PHI										
.0000	.3330	.3320	.3260	.3090	.3020	.2930				
20.0000	.3090									
40.0000	.1900	.0370	.0710	.1380	.2430	.2720	.2850		.2860	.2870
55.0000	-.1900									
70.0000	-.0310	-.0770	-.0890	-.1360	-.2090		-.1840	-.1970	-.1820	-.1780
90.0000	.0150	-.0640	-.0980	-.1180	-.1440		-.2180	-.2100	-.2010	-.2020
105.0000									-.1990	-.1900
120.0000	-.0440	-.1200	-.1410	-.1570	-.1360		-.1350	-.1540	-.0580	-.1570
135.0000									.0080	-.0110
150.0000	-.1430	-.1380	-.1410	-.1000	-.0990		-.1350	-.1310	-.0230	-.0450
165.0000	-.1710	-.1610	-.1140	-.0810	-.0810		-.1050		-.0850	.0570
180.0000	-.1710	-.1680	-.1780	-.1370	-.0880		-.1130	-.1160	-.1010	

TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB10) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2380		-.1770
40.0000	.2650	.2880			-.1750
70.0000	-.1720	-.1450	-.1760		
90.0000	-.1840	-.1910	-.1840		
105.0000	-.1830	-.1920	-.1870		
110.0000				-.0770	
120.0000	-.1920	-.1920	-.1840	-.1770	
135.0000	-.1910	-.1410	-.1200		
150.0000	-.1290	-.0520	-.0400		
165.0000	.0180	-.0080	-.0490		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (1) = -6.710

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5260	1.5600	1.0060	.3550	.2870	.2750			.2790	
20.0000			1.0810	.4350	.3130	.2930			.3030	
40.0000			1.1040	.4370	.3730	.3420			.3450	
55.0000			1.0140	.4690	.3140	.1590			.1360	
70.0000			.8630	.3770	.1750	.1480			.1430	
90.0000		1.2150	.6420	.1960	.1360	.1090			.1080	
120.0000			.3530	.0810	.0630	.0480			.1030	.0110
142.0000									.2260	
150.0000			.2180	.0210	.0160	.0400		.3190		
157.0000									.2670	
162.0000									.2450	
169.0000							.0920			
172.0000									.3100	
180.0000	1.5260	.5970	.1170	-.0050	-.0050	.0140				

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBuB10) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (1) = -6.710

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2910	.2970	.2980	.2970	.2870	.2770				
20.0000	.3040									
40.0000	.3180	.2640	.2910	.3100	.3520	.3580	.3410		.3110	.3020
55.0000	.1540									
70.0000	.1400	.0660	.0350	.0290	.0170		-.0510	-.0900	-.0770	-.0790
90.0000	.1160	.0360	.0030	-.0010	-.0010		-.0150	-.0390	-.0450	-.0410
105.0000									-.0100	.0700
120.0000	.0800	-.0510	-.0650	-.0690	-.0790		-.0780	-.0770	.4290	.1850
135.0000									.0230	.0160
150.0000	-.0380	-.0650	-.0700	-.0790	-.0900		-.0810	-.0760	-.0330	-.0390
165.0000	-.0640	-.0500	-.0600	-.0740	-.0920		-.0850		-.0520	-.0360
180.0000	-.0860	-.0920	-.0920	-.0800	-.0810		-.0860	-.0820	-.0700	

MACH (2) = 3.501 BETA (1) = -6.710

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1470		-.0590
40.0000	.2280	.2050			-.0610
70.0000	-.1080	-.0790	-.0730		
90.0000	-.0740	-.0650	-.0380		
105.0000	.0160	-.0460	-.0350		
110.0000				-.0630	
120.0000	-.0100	-.0550	-.0270	-.0620	
135.0000	-.0710	-.1190	-.0650		
150.0000	-.1290	-.1320	-.0820		
165.0000	-.0830	-.1000	-.0760		

AMES 89-707 OA12 O2A ORBITER FUSELAGE (RB0B10) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.440

X/LB	.0000	.0075	.0189	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5710	1.6010	1.0310	.3670	.2950	.2790			.2810	
20.0000			1.0770	.4300	.3070	.2880			.2970	
40.0000			1.0610	.4280	.3370	.3070			.3060	
55.0000			.9500	.4280	.2620	.1050			.0780	
70.0000			.7850	.3010	.1330	.1000			.0980	
90.0000		1.1690	.5730	.1540	.0960	.0720			.0700	
120.0000			.3170	.0600	.0380	.0460			.0700	
142.5000										-.0090
150.0000			.2040	.0140	.0070	.0380			.2100	
157.0000								.3040		
162.0000									.2630	
169.0000									.2520	
172.0000							.0770			
180.0000	1.5710	.6190	.1280	-.0040	-.0020	.0220			.3370	

MACH (2) = 3.501 BETA (2) = -3.440

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2940	.2960	.2970	.2900	.2800	.2700				
20.0000	.3010									
40.0000	.2700	.2120	.2360	.2760	.3210	.3260	.3200		.2880	.2850
55.0000	.0860									
70.0000	.0930	.0230	-.0030	-.0040	-.0260		-.0660	-.1010	-.0860	-.0820
90.0000	.0720	.0010	-.0250	-.0230	-.0300		-.0440	-.0720	-.0770	-.0900
105.0000									-.0350	.0150
120.0000	.0450	-.0660	-.0750	-.0790	-.0890		-.0760	-.0680	.3570	.1340
135.0000									.0230	.0090
150.0000	-.0560	-.0770	-.0740	-.0860	-.0920		-.0810	-.0730	-.0300	-.0180
165.0000	-.0740	-.0660	-.0600	-.0710	-.0970		-.0920		-.0640	-.0070
180.0000	-.0930	-.0900	-.0840	-.0720	-.0630		-.0800	-.0820	-.0 00	

AMES 87-707 OA12 C2A ORBITER FUSELAGE (RL0810) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.0495 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.440

X/LB	.0848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1470		-.0700
40.0000	.2190	.2070			-.0620
70.0000	-.1200	-.1150	-.0750		
90.0000	-.1110	-.1080	-.0590		
105.0000	-.0430	-.0960	-.0590		
110.0000				-.0700	
120.0000	-.0480	-.0840	-.0470	-.0700	
135.0000	-.0790	-.1160	-.0600		
150.0000	-.1180	-.1210	-.0780		
165.0000	-.0820	-.1070	-.0810		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.150

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5840	1.6170	1.0390	.3710	.3000	.2800			.2870	
20.0000			1.0410	.4120	.3020	.2810			.2910	
40.0000			.9950	.4160	.2960	.2600			.2640	
55.0000			.8640	.4150	.2080	.0610			.0230	
70.0000			.6900	.2580	.0890	.0580			.0530	
90.0000		1.0380	.4930	.1090	.0590	.0410			.0390	
120.0000			.2690	.0340	.0190	.0300			.0470	
142.0000										-.0170
150.0000			.1830	.0020	.0090	.0270			.1760	
157.0000								.0910		
162.0000									.2270	
169.0000									.2290	
172.0000							.0470			
180.0000	1.5840	.6220	.1270	-.0030	.0120	.0250			.3120	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQ910) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.150

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3020	.3030	.3070	.2940	.2770	.2690				
20.0000	.2990									
40.0000	.2190	.1640	.1940	.2310	.2860	.3030	.3000		.2765	.2710
55.0000	.0280									
70.0000	.0480	-.0010	-.0180	-.0310	-.0770		-.0780	-.1050	-.0900	-.0880
90.0000	.0470	-.0140	-.0390	-.0470	-.0510		-.0780	-.1020	-.1000	-.1090
105.0000									-.0670	-.0500
120.0000	.0280	-.0650	-.0830	-.0840	-.0850		-.0790	-.0740	.1800	.0760
135.0000									.0130	.0160
150.0000	-.0580	-.0740	-.0790	-.0830	-.0960		-.0860	-.0810	-.0430	-.0010
165.0000	-.0730	-.0700	-.0690	-.0660	-.0800		-.1030		-.0660	-.1300
180.0000	-.0870	-.0810	-.0700	-.0540	-.0510		-.0650	-.0740	-.0670	

MACH (2) = 3.501 BETA (3) = -.150

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1630		-.0690
40.0000	.2230	.2240			-.0650
70.0000	-.1090	-.0800	-.0800		
90.0000	-.1230	-.1190	-.0840		
105.0000	-.1120	-.1070	-.0840		
110.0000				-.0690	
120.0000	-.0810	-.0970	-.0730	-.0690	
135.0000	-.0810	-.1110	-.0720		
150.0000	-.1020	-.1020	-.0650		
165.0000	-.0730	-.0790	-.0700		

AMES 8?-707 OA12 G2A ORBITER FUSELAGE (RBQB10) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = ?9.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.160

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1956
PHI										
.0000	1.5730	1.6040	1.0200	.3680	.2920	.2800			.2810	
20.0000			1.0200	.3900	.2860	.2720			.2750	
40.0000			.9130	.3900	.2500	.2270			.2160	
55.0000			.7710	.3890	.1580	.0210			-.0190	
70.0000			.5950	.1950	.0530	.0200			.0150	
90.0000		.9950	.4100	.0680	.0270	.0140			.0150	
120.0000			.2230	.0100	-.0030	.0210			.0220	-.0320
142.0000										
150.0000			.1580	-.0090	-.0030	.0180			.1190	
157.0000								.1050		
162.0000									.2230	
169.0000									.2360	
172.0000							.0560			
180.0000	1.5730	.6190	.1260	-.0100	-.0040	.0190			.3310	

MACH (2) = 3.501 BETA (4) = 3.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7859	.8283
PHI										
.0000	.2920	.3050	.3020	.2920	.2800	.2710				
20.0000	.2230									
40.0000	.1600	.1150	.1390	.1820	.2490	.2750	.2780		.2610	.2540
55.0000	-.0180									
70.0000	.0060	-.0250	-.0400	-.0530	-.1050		-.0820	-.1130	-.0940	-.0900
90.0000	.0220	-.0320	-.0510	-.0590	-.0630		-.1140	-.1210	-.1130	-.1150
105.0000									-.1100	-.1150
120.0000	-.0090	-.0660	-.0840	-.0900	-.0880		-.0890	-.0910	.0870	-.0170
135.0000									-.0220	-.0110
150.0000	-.0620	-.0700	-.0800	-.0820	-.1000		-.0890	-.0850	-.0470	-.0320
165.0000	-.0810	-.0770	-.0740	-.0620	-.0670		-.0860		-.0680	-.0240
180.0000	-.0880	-.0840	-.0850	-.0720	-.0620		-.0800	-.0850	-.0560	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBS910) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.0490 INCHES YMRP = .0000 INCHES

BREF = 39.0490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = 10.000 FLOPER = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.160

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1470		-.0850
40.0000	.2060	.2140			-.0700
70.0000	-.1200	-.1180	-.0840		
90.0000	-.1470	-.1470	-.1030		
105.0000	-.1470	-.1500	-.1030		
110.0000				-.0530	
120.0000	-.1030	-.1180	-.0770	-.0770	
135.0000	-.1030	-.1270	-.0800		
150.0000	-.1260	-.1210	-.0720		
165.0000	-.0740	-.0840	-.0540		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.480

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5250	1.5510	.9440	.3260	.2800	.2740			.2740	
20.0000			.9440	.3540	.2620	.2560			.2600	
40.0000			.8150	.3510	.2040	.1830			.1700	
55.0000			.6690	.3520	.1120	-.0110			-.0450	
70.0000			.4980	.1590	.0200	-.0140			-.0190	
90.0000		.8840	.3320	.0300	-.0020	.0020			-.0010	
120.0000			.1770	-.0130	-.0220	.0020			.0030	
142.0000										-.0530
150.0000			.1300	-.0230	-.0220	.0010			.1350	
157.0000								.1760		
162.0000									.2270	
169.0000									.2150	
172.0000							.1540			
180.0000	1.5250	.6000	.1180	-.0160	-.0110	.0030			.3050	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0B10) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.480

X/LB	.2259	.2711	.3200	.3955	.5120	.5873	.6626	.7380	.7809	.8283
PHI										
.0000	.2860	.2960	.2960	.2910	.2860	.2780				
20.0000	.2670									
40.0000	.1110	.0650	.0860	.1300	.2080	.2380	.2520		.2410	.2360
55.0000	-.0450									
70.0000	-.0290	-.0510	-.0690	-.0960	-.1110		-.0860	-.1160	-.0930	-.0910
90.0000	-.0020	-.0490	-.0630	-.0750	-.0920		-.1210	-.1220	-.1130	-.1080
105.0000									-.1140	-.1100
120.0000	-.0910	-.0690	-.0830	-.0900	-.0880		-.0930	-.1020	-.0890	-.1120
135.0000									-.0230	-.0360
150.0000	-.0760	-.0870	-.0850	-.0810	-.0790		-.0920	-.0940	-.0630	-.0470
165.0000	-.0910	-.0900	-.0820	-.0610	-.0660		-.0880		-.0730	-.0370
180.0000	-.0890	-.0930	-.0980	-.0810	-.0810		-.0880	-.0840	-.0710	

MACH (2) = 3.501 BETA (5) = 6.480

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1510		-.0870
40.0000	.1940	.1970			-.0690
70.0000	-.1200	-.1030	-.0800		
90.0000	-.1440	-.1420	-.0980		
105.0000	-.1450	-.1450	-.1010		
110.0000				-.0610	
120.0000	-.1440	-.1450	-.1020	-.0960	
135.0000	-.1440	-.1350	-.1010		
150.0000	-.1420	-.1220	-.0630		
165.0000	-.0900	-.0920	-.0610		

AMES 07-707 OA12 OBA ORBITER FUSELAGE (RBQB11) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6850	1.0800	.4810	.0100	-.0280	.0050			.0000	
20.0000			.5460	.0440	-.0280	-.0030			-.0080	
40.0000			.6950	.0420	.0710	.0130			-.0090	
55.0000			.7600	.0930	.1640	.1640			.1670	
70.0000			.7790	.1440	.1780	.1890			.2000	
90.0000		1.3590	.7660	.2470	.1900	.2140			.2030	
120.0000			.7190	.2530	.2530	.2920			.3930	
142.0000										.1240
150.0000			.6590	.2590	.2780	.3490			.8540	
157.0000								1.0120		
162.0000									.8520	
169.0000									.7720	
172.0000							.9790			
180.0000	1.6850	1.1550	.5070	.2600	.2470	.3280			.9980	

MACH (1) = 2.498 BETA (1) = -6.440

X/LB	.2239	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0070	.0130	.0140	.0120	.0090	-.0010				
20.0000	-.0060									
40.0000	-.0230	-.0260	-.0510	-.0550	-.0100	-.0030	-.0100		-.0220	-.0370
55.0000	.1600									
70.0000	.2130	.0710	.0070	.0460	.0630		.0040	-.0300	-.0150	.0410
90.0000	.2120	.0500	.0100	.0130	.0450		.0150	-.0100	.0300	.1050
105.0000									.1130	.1550
120.0000	.1780	.0080	-.0150	.0000	.0070		.0050	-.0070	.3570	.2760
135.0000									.3400	.3270
150.0000	.0260	-.0040	-.0160	-.0160	-.0210		-.0090	-.0120	.0780	.1250
165.0000	-.0230	-.0180	-.0070	-.0160	-.0300		-.0020		.1020	.1970
180.0000	-.0810	-.0810	-.0610	-.0700	-.0910		-.1100	-.0650	-.0290	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQB11) (16 MAY 73)

AMES 87-707 OA12 02A ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0630		-.1110
40.0000	-.0710	-.0920			-.0760
70.0000	.0450	.1890	.2630		
90.0000	.0850	.0620	.1050		
105.0000	.1080	.0550	.0330		
110.0000				-.0440	
120.0000	.0870	.0600	.0530	.0360	
135.0000	-.0290	-.0280	-.0060		
150.0000	-.0780	-.0280	.0440		
165.0000	.1250	.1660	.0660		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7040	1.0950	.5000	.0150	-.0230	.0080			.0080	
20.0000			.5360	.0390	-.0260	.0020			.0020	
40.0000			.6530	.0390	.0480	.0090			-.0060	
55.0000			.6920	.0700	.1150	.1180			.1230	
70.0000			.6910	.0970	.1230	.1390			.1460	
90.0000		1.2820	.6770	.1610	.1330	.1660			.1690	
120.0000			.6480	.2070	.2040	.2380			.3130	
142.0000										.0760
150.0000			.6190	.2340	.2520	.3090			.7810	
157.0000								.9560		
162.0000									.8030	
169.0000									.7790	
172.0000							.9710			
180.0000	1.7040	1.1670	.5070	.2340	.2520	.3270			1.0170	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB11) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0160	.0230	.0230	.0200	.0140	.0090				
20.0000	.0030									
40.0000	-.0140	-.0170	-.0270	-.0230	.0100	.0080	.0040		-.0080	-.0220
55.0000	.1130									
70.0000	.1630	.0370	-.0200	.0080	.0300		-.0200	-.0500	-.0400	.0080
90.0000	.1550	.0130	-.0190	-.0170	.0130		-.0070	-.0320	.0010	.0410
105.0000									.0790	.0790
120.0000	.1270	-.0250	-.0300	-.0280	-.0140		-.0080	-.0150	.3120	.2030
135.0000									.3650	.3270
150.0000	.0100	-.0320	-.0400	-.0350	-.0290		-.0120	-.0120	.1020	.1930
165.0000	-.0400	-.0550	-.0350	-.0310	-.0300		-.0150		.1090	.2330
180.0000	-.0820	-.0710	-.0550	-.0460	-.0450		-.0400	-.0350	.0570	

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0500		-.0880
40.0000	-.0530	-.0810			-.0600
70.0000	.0150	.1600	.2420		
90.0000	.0510	.0340	.0420		
105.0000	.0650	.0240	.0060		
110.0000				-.0040	
120.0000	.0650	.0240	.0310	.0170	
135.0000	-.0260	-.0250	.0170		
150.0000	-.0410	.0120	.0750		
165.0000	.1610	.1470	.0490		

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB11) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8450 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.220

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7100	1.0980	.4980	.0160	-.0200	.0070			.0060	
20.0000			.5180	.0330	-.0220	.0050			.0060	
40.0000			.5980	.0330	.0240	.0050			-.0020	
55.0000			.6300	.0520	.0670	.0740			.0740	
70.0000			.6010	.0530	.0710	.0880			.0950	
90.0000		1.1890	.5860	.1140	.0800	.1070			.1130	
120.0000			.5740	.1150	.1540	.1430			.2030	
142.0000										.0280
150.0000			.5710	.1910	.2220	.2710			.6910	
157.0000								.9090		
162.0000									.7470	
169.0000									.7710	
172.0000							.9790			
180.0000	1.7100	1.1760	.5070	.2420	.2520	.3160			1.0100	

MACH (1) = 2.498 BETA (3) = -.220

X/LB	.2259	.2711	.3200	.3953	.5120	.5875	.6626	.7380	.7869	.8283
PHI										
.0000	.0120	.0230	.0290	.0210	.0160	.0080				
20.0000	.0060									
40.0000	-.0060	-.0040	-.0070	-.0050	.0160	.0110	.0060		.0040	-.0100
55.0000	.0690									
70.0000	.1110	-.0020	-.0500	-.0240	-.0010		-.0370	-.0580	-.0540	-.0110
90.0000	.0950	-.0260	-.0480	-.0490	-.0150		-.0200	-.0420	.0010	.0130
105.0000									.0660	.0360
120.0000	.0740	-.0600	-.0370	-.0540	-.0310		-.0110	-.0150	.1920	.1370
135.0000									.3530	.3310
150.0000	-.0220	-.0660	-.0650	-.0430	-.0360		-.0190	-.0110	.1380	.2640
165.0000	-.0620	-.0820	-.0580	-.0410	-.0350		-.0220		.1440	.2480
180.0000	-.0880	-.0640	-.0590	-.0380	-.0350		-.0260	-.0130	.0000	

AMES 87-707 OA12 OEA ORBITER FUSELAGE (RB0B11) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.220

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0430		-.0870
40.0000	-.0360	-.0710			-.0570
70.0000	-.0120	.0950	.1930		
90.0000	.0250	.0070	.0290		
105.0000	.0230	-.0060	-.0220		
110.0000				-.0070	
120.0000	-.0210	-.0080	.0060	.0020	
135.0000	-.0230	-.0300	.0310		
150.0000	.0090	.0470	.0680		
165.0000	.1750	.1330	.0260		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.070

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6980	1.0920	.5020	.0120	-.0260	.0040			.0060	
20.0000			.4950	.0210	-.0340	.0020			.0060	
40.0000			.5460	.0210	-.0040	-.0010			.0030	
55.0000			.5480	.0310	.0250	.0370			.0330	
70.0000			.5130	.0300	.0220	.0530			.0430	
90.0000		1.0970	.4930	.0280	.0290	.0600			.1030	
120.0000			.4960	.0980	.1040	.0970			.1130	
142.0000										-.0100
150.0000			.5200	.1720	.1870	.2360			.6020	
157.0000								.8480		
162.0000									.7200	
169.0000									.7680	
172.0000							.9640			
180.0000	1.6980	1.1700	.5010	.1720	.2450	.3100			.9990	

AMES 97-707 OA12 02A ORBITER FUSELAGE (RBQB11) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.070

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0110	.0160	.0150	.0150	.0110	.0090				
20.0000	.0080									
40.0000	-.0010	-.0020	.0060	-.0020	.0120	.0100	.0080		.0070	-.0030
55.0000	.0480									
70.0000	.0740	-.0300	-.0700	-.0440	-.0240		-.0430	-.0630	-.0580	-.0300
90.0000	.0380	-.0570	-.0710	-.0700	-.0330		-.0270	-.0420	.0090	.0020
105.0000									.0330	.0020
120.0000	.0160	-.0900	-.0870	-.0730	-.0460		-.0170	-.0220	.1220	.0780
135.0000									.4790	.3250
150.0000	-.0530	-.1010	-.0830	-.0610	-.0460		-.0300	-.0180	.1590	.4200
165.0000	-.0890	-.1010	-.0740	-.0500	-.0470		-.0440		.0400	.3320
180.0000	-.0920	-.0720	-.0610	-.0510	-.0470		-.0400	-.0330	.0260	

MACH (1) = 2.498 BETA (4) = 3.070

X/LB	.8948	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0590		-.0950
40.0000	-.0380	-.0860			-.0650
70.0000	-.0370	.0610	.1230		
90.0000	-.0170	-.0200	.0430		
105.0000	-.0150	-.0420	-.0410		
110.0000				-.0140	
120.0000	-.0770	-.0520	-.0060	-.0160	
135.0000	-.0770	-.0480	-.0090		
150.0000	.0030	.0290	.0210		
165.0000	.1540	.0700	.0230		

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0311) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.300

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6820	1.0750	.5230	.0060	-.0250	-.0050				
20.0000			.4660	.0090	-.0440	-.0060			-.0010	
40.0000			.4920	.0080	-.0300	-.0100			.0010	
55.0000			.4320	.0130	-.0140	.0060			.0020	
70.0000			.4320	.0120	-.0220	.0170			.0070	
90.0000		1.0020	.4070	.0100	-.0140	.0220			.0170	
120.0000			.4230	.0100	.0620	.0590			.0530	
142.0000									.0670	
150.0000			.4730	.1210	.1620	.1880				-.0490
157.0000									.5190	
162.0000								.8070		
169.0000									.6930	
172.0000									.7600	
180.0000	1.6820	1.1630	.4950	.2170	.2420	.2990	.9230		.9880	

MACH (1) = 2.498 BETA (5) = 6.300

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0030	.0100	.0120	.0100	.0040	-.0050				
20.0000	.0020									
40.0000	-.0050	.0000	.0020	-.0060	.0080	.0060	.0040		.0070	-.0010
55.0000	.0260									
70.0000	.0350	-.0510	-.0890	-.0630	-.0350		-.0420	-.0650	-.0620	-.0380
90.0000	.0010	-.0860	-.0870	-.0920	-.0410		-.0260	-.0410	-.0040	-.0120
105.0000									.0160	-.0220
120.0000	-.0290	-.1180	-.1200	-.0920	-.0610		-.0260	-.0290	.1470	.0500
135.0000									.5480	.3490
150.0000	-.0800	-.1210	-.1050	-.0810	-.0640		-.0660	-.0690	.0780	.2010
165.0000	-.1160	-.1090	-.0910	-.0770	-.0990		-.0840		.0540	.2110
180.0000	-.0880	-.0900	-.0630	-.0670	-.0960		-.1090	-.0690	-.0300	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB11) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.300

X/LB	.6848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0560		-.1120
40.0000	-.0230	-.0820			-.0840
70.0000	-.0290	.0280	.1240		
90.0000	-.0150	-.0320	-.0330		
105.0000	-.0140	-.0480	-.0600		
110.0000				-.0560	
120.0000	-.0920	-.0770	-.0540	-.0490	
135.0000	-.0940	-.0670	-.0490		
150.0000	.0070	.0230	.0000		
165.0000	.0830	.0070	-.0330		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.670

X/LB	.0000	.0075	.0188	.0339	.0802	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6890	1.0700	.4920	.0900	.0270	.0150			.0070	
20.0000			.5550	.0870	.0210	.0080			.0030	
40.0000			.7050	.0870	.0860	.0310			.0190	
55.0000			.7630	.1410	.1630	.1490			.1460	
70.0000			.7770	.1870	.1700	.1570			.1670	
90.0000		1.3670	.7650	.2630	.1800	.1850			.1550	
120.0000			.7110	.2920	.2330	.2520			.3330	
142.0000										.1730
150.0000			.6450	.2670	.2480	.2950			.8410	
157.0000								.9630		
162.0000									.9380	
169.0000									.8790	
172.0000							.8930			
180.0000	1.6890	1.1480	.5020	.2460	.2230	.2500			1.1180	

DATE 15 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 07-707 OA12 02A ORBITER FUSELAGE (RBQB11) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.670

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0080	.0100	.0100	.0060	.0030	-.0070				
20.0000	-.0010									
40.0000	.0140	.0080	-.0140	-.0320	-.0150	-.0130	-.0090		-.0150	-.0190
55.0000	.1440									
70.0000	.1800	.0900	.0420	.0560	.0640		.0240	-.0070	-.0030	.0190
90.0000	.1900	.0750	.0430	.0290	.0480		.0300	.0100	.0210	.0750
105.0000									.0910	.0980
120.0000	.1750	.0460	.0180	.0200	.0140		.0160	.0060	.2860	.2840
135.0000									.2860	.3330
150.0000	.0640	.0370	.0130	-.0020	-.0050		-.0010	-.0010	.0580	.1280
165.0000	.0520	.0140	.0150	-.0030	-.0060		.0040		.0700	.1260
180.0000	-.0030	-.0190	-.0320	-.0410	-.0530		-.0640	-.0530	-.0320	

MACH (2) = 3.502 BETA (1) = -6.670

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0430		-.0610
40.0000	-.0450	-.0540			-.0370
70.0000	.0320	.0690	.2040		
90.0000	.0520	.0810	.0840		
105.0000	.0510	.0980	.0850		
110.0000				.0330	
120.0000	.0540	.0500	.0990	.0880	
135.0000	.0530	-.0100	.0110		
150.0000	-.0330	-.0210	.0190		
165.0000	.0760	.1400	.0820		

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C (RS0B11) (16 MAY 73)

AMES 87-707 OA12 O2A ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -3.410

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7400	1.1080	.5040	.1090	.0180	.0110			.0090	
20.0000			.5500	.0870	.0170	.0080			.0060	
40.0000			.6710	.0990	.0670	.0200			.0110	
55.0000			.7090	.1350	.1250	.0960			.1060	
70.0000			.7030	.1620	.1250	.1130			.1220	
90.0000		1.3030	.6870	.2070	.1340	.1370			.1070	
120.0000			.6510	.2490	.1890	.1950			.2530	
142.0000										.1260
150.0000			.6150	.2490	.2250	.2580		.9170	.7510	
157.0000									.8840	
162.0000									.8730	
169.0000							.9150			
172.0000									1.1330	
180.0000	1.7400	1.1830	.5140	.2520	.2240	.2560				

MACH (2) = 3.502 BETA (2) = -3.410

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0100	.0130	.0090	.0050	.0020	-.0060				
20.0000	.0030									
40.0000	.0020	.0000	-.0130	-.0240	.0020	-.0050	-.0070		-.0120	-.0190
55.0000	.0090									
70.0000	.1240	.0520	.0090	.0200	.0270		-.0080	-.0320	-.0270	-.0080
90.0000	.1340	.0340	.0070	-.0030	.0160		-.0010	-.0200	-.0060	.0200
105.0000									.0480	.0450
120.0000	.1260	.0120	-.0060	-.0050	-.0140		-.0070	-.0120	.2480	.1960
135.0000									.2700	.2940
150.0000	.0420	.0090	-.0110	-.0230	-.0240		-.0160	-.0140	.0520	.1360
165.0000	.0250	-.0100	-.0100	-.0250	-.0240		-.0180		.0540	.1390
180.0000	-.0120	-.0250	-.0320	-.0270	-.0350		-.0360	-.0340	.0060	

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBBB11) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -3.410

X/LB	.6848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0380		-.0610
40.0000	-.0400	-.0520			-.0350
70.0000	.0090	.0350	.1470		
90.0000	.0310	.0310	.0410		
105.0000	.0290	.0410	.0400		
110.0000				.0310	
120.0000	.0290	.0060	.0420	.0470	
135.0000	.0310	-.0190	-.0010		
150.0000	-.0260	-.0170	.0130		
165.0000	.1030	.1130	.0600		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.160

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7610	1.1180	.5030	.1080	.0180	.0170			.0120	
20.0000			.5360	.0810	.0170	.0140			.0110	
40.0000			.6200	.0890	.0520	.0170			.0120	
55.0000			.6380	.1080	.0920	.0660			.0670	
70.0000			.6170	.1270	.0870	.0800			.0780	
90.0000		1.2190	.5980	.1580	.0930	.1010			.0710	
120.0000			.5810	.2040	.1530	.1520			.1770	
142.0000										.0950
150.0000			.5770	.2260	.2070	.2330			.6710	
157.0000								.9020		
162.0000									.8360	
169.0000									.8650	
172.0000							.9710			
180.0000	1.7610	1.2010	.5210	.2530	.2310	.2640			1.1340	

AMES 07-707 OA12 02A ORBITER FUSELAGE (RBQB11) (16 MAY ?3)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DA

ALPHA = .000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0130	.0110	.0120	.0060	.0070	-.0030				
20.0000	.0110									
40.0000	.0030	-.0070	-.0060	-.0070	.0060	.0010	-.0030		-.0020	-.0070
55.0000	.0550									
70.0000	0830	.0190	-.0140	-.0050	.0050		-.0230	-.0410	-.0380	-.0170
90.0000	.. 460	.0040	-.0140	-.0220	-.0070		-.0140	-.0300	-.0160	-.0120
105.0000									.0410	.0260
120.0000	.0810	-.0100	-.0250	-.0260	-.0300		-.0120	-.0140	.1320	.0890
135.0000									.2320	.2770
150.0000	.0280	-.0120	-.0300	-.0530	-.0280		-.0190	-.0150	.0810	.1790
165.0000	.0070	-.0230	-.0270	-.0280	-.0270		-.0220		.0650	.1460
180.0000	-.0190	-.0180	-.0260	-.0220	-.02-0		-.0220	-.0210	-.0070	

MACH (2) = 3.502 BETA (3) = -.160

X/LB	8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0330		-.056[illegible]
40.0000	-.0360	-.0430			-.0280
70.0000	-.0230	.0120	.1100		
90.0000	-.0050	-.0030	.0120		
103.0000	-.0050	-.0070	.0050		
110.0000				.0280	
120.0000	-.0030	-.0230	-.0030	.0190	
135.0000	-.0140	-.0270	-.0020		
150.0000	-.0060	.0010	.0360		
165.0000	.1040	.0960	.0440		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB11) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.180

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7520	1.1080	.5090	.1100	.0180	.0160			.0050	
20.0000			.5090	.0720	.0110	.0110			.0080	
40.0000			.5660	.0710	.0310	.0130			.0130	
55.0000			.5670	.0850	.0570	.0380			.0380	
70.0000			.5310	.0930	.0510	.0510			.0480	
90.0000		1.1160	.5050	.1080	.0570	.0650			.0320	
120.0000			.5030	.1590	.1150	.1120			.0930	
142.0000										.0560
150.0000			.5230	.2000	.1810	.2080			.5750	
157.0000								.8440		
162.0000									.8070	
169.0000									.8590	
172.0000							.9050			
180.0000	1.7520	1.1970	.5150	.2470	.2280	.2560			1.1160	

MACH (2) = 3.502 BETA (4) = 3.180

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0070	.0110	.0090	.0040	.0060	-.0030				
20.0000	.0050									
40.0000	-.0040	-.0030	.0090	-.0030	.0040	.0000	-.0020		.0000	-.0040
55.0000	.0250									
70.0000	.0540	-.0060	-.0350	-.0230	-.0110		-.0350	-.0510	-.0460	-.0340
90.0000	.0390	-.0220	-.0350	-.0400	-.0280		-.0240	-.0340	-.0150	-.0020
105.0000									.0170	-.0010
120.0000	.0430	-.0370	-.0410	-.0450	-.0420		-.0220	-.0210	.0510	.0520
135.0000									.3830	.2690
150.0000	.0120	-.0360	-.0410	-.0430	-.0400		-.0290	-.0240	.0930	.2950
159.0000	-.0190	-.0390	-.0370	-.0320	-.0330		-.0360		-.0050	.1590
180.0000	-.0200	-.0280	-.0300	-.0240	-.0300		-.0330	-.0290	-.0040	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 OEA ORBITER FUSELAGE (RB0B11) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.180

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0300		-.0620
40.0000	-.0140	-.0350			-.0370
70.0000	-.0190	-.0180	.0390		
90.0000	-.0080	-.0170	-.0130		
105.0000	-.0070	-.0170	-.0220		
110.0000				.0190	
120.0000	-.0060	-.0370	-.0280	-.0200	
135.0000	-.0060	-.0160	-.0100		
150.0000	.0310	.0120	-.0100		
165.0000	.1350	.0550	.0330		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 6.530

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6930	1.0720	.4860	.0700	.0180	.0100			.0040	
20.0000			.4700	.0580	.0020	.0040			.0040	
40.0000			.4990	.0570	.0090	.0000			.0090	
55.0000			.4860	.0560	.0260	.0140			.0150	
70.0000			.4390	.0570	.0160	.0230			.0270	
90.0000		1.0010	.4130	.0310	.0210	.0310			.0090	
120.0000			.4240	.0610	.0760	.0710			.0340	.0250
142.0000										
150.0000			.4660	.1420	.1520	.1740		.7660	.4830	
157.0000									.7820	
162.0000									.6430	
169.0000							.8120			
172.0000									1.0990	
180.0000	1.6930	1.1630	.4990	.2090	.2190	.2400				

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0B11) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 6.530

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0020	.0110	.0060	.0010	-.0030	-.0120				
20.0000	.0030									
40.0000	-.0080	-.0020	.0050	-.0090	-.0040	-.0040	-.0070		-.0010	-.0050
53.0000	.0050									
70.0000	.0210	-.0240	-.0430	-.0390	-.0280		-.0400	-.0550	-.0460	-.0380
90.0000	.0070	-.0420	-.0500	-.0540	-.0440		-.0300	-.0380	-.0260	-.0180
105.0000									.0020	-.0330
120.0000	.0100	-.0520	-.0640	-.0540	-.0580		-.0380	-.0330	.1050	.0220
135.0000									.3470	.2520
150.0000	-.0050	-.0490	-.0570	-.0590	-.0430		-.0510	-.0570	.0090	.0910
165.0000	-.0320	-.0460	-.0460	-.0490	-.0580		-.0630		-.0110	.0640
180.0000	-.0120	-.0250	-.0420	-.0410	-.0590		-.0710	-.0600	-.0370	

MACH (2) = 3.502 BETA (5) = 6.530

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0440		-.0660
40.0000	-.0160	-.0390			-.0450
70.0000	-.0200	-.0350	.0270		
90.0000	-.0210	-.0290	-.0240		
105.0000	-.0200	-.0480	-.0410		
110.0000				-.0280	
120.0000	-.0530	-.0580	-.0450	-.0430	
135.0000	-.0530	-.0410	-.0270		
150.0000	.0090	.0070	-.0280		
165.0000	.0080	-.0110	-.0280		

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RB0B12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.530

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6650	1.3600	.7550	.1500	.1160	.1290			.1260	
20.0000			.8210	.2190	.1350	.1330			.1340	
40.0000			.9180	.3090	.2270	.1720			.1670	
55.0000			.9130	.3290	.2510	.1890			.1780	
70.0000			.8520	.3270	.1800	.1820			.1840	
90.0000		1.3390	.7270	.2150	.1690	.1720			.2050	
120.0000			.5370	.1550	.1410	.2010			.2720	.0650
142.0000			.4090	.0960	.1040	.1780			.5750	
150.0000								.6930		
157.0000									.5690	
162.0000									.4940	
169.0000							.6300			
172.0000									.6500	
180.0000	1.6650	.8830	.2670	.0690	.0750	.1160				

MACH (1) = 2.498 BETA (1) = -6.530

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1200	.1270	.1220	.1180	.1040	.1050				
20.0000	.1300									
40.0000	.1610	.1470	.1520	.1350	.1560	.1520	.1390		.1350	.1140
55.0000	.1830									
70.0000	.1880	.0720	.0360	.0260	.0260		-.0420	-.0750	-.0720	-.0870
90.0000	.1910	.0510	-.0110	-.0150	-.0100		-.0400	-.0620	-.0630	.0160
105.0000									.0110	.0790
120.0000	.0000	-.0240	-.0520	-.0730	-.0910		-.1080	-.1130	.4310	.2660
135.0000									.0530	.0920
150.0000	-.0340	-.0700	-.0730	-.0650	-.0670		-.0930	-.0880	-.0190	-.0480
165.0000	-.0800	-.0550	-.0530	-.0540	-.0620		-.0690		-.0230	.0540
180.0000	-.1350	-.1340	-.1350	-.1410	-.1180		-.0950	-.0720	-.0570	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.530

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0540		-.1110
40.0000	.0810	.0160			-.0920
70.0000	-.0260	-.0330	.1450		
90.0000	-.0050	-.0110	-.0220		
105.0000	.0670	-.0060	-.0410		
110.0000				-.0400	
120.0000	.0270	-.0200	-.0330	-.0440	
135.0000	-.0990	-.1280	-.1000		
150.0000	-.1310	-.1410	-.1330		
165.0000	.0070	.0030	-.0400		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6840	1.3700	.7490	.1560	.1170	.1340			.1270	
20.0000			.7980	.2060	.1270	.1340			.1350	
40.0000			.8590	.2030	.1910	.1530			.1530	
55.0000			.8330	.2380	.1950	.1290			.1280	
70.0000			.7570	.2370	.1230	.1290			.1460	
90.0000		1.2560	.6390	.1550	.1100	.1480			.1540	
120.0000			.4750	.1160	.0990	.1600			.1730	
142.0000										.0240
150.0000			.3780	.0780	.0850	.1510			.5250	
157.0000								.6560		
162.0000									.5260	
169.0000									.4900	
172.0000							.6190			
180.0000	1.6840	.8930	.2700	.0670	.0770	.1230			.6650	

AMES 87-707 OA12 OEA ORBITER FUSELAGE (RBOB12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1250	.1310	.1260	.1110	.1070	.1080				
20.0000	.1280									
40.0000	.1370	.1210	.1340	.1240	.1390	.1390	.1260		.1290	.1180
55.0000	.1370									
70.0000	.1320	.0370	.0010	-.0110	-.0140		-.0730	-.1060	-.1060	-.1150
90.0000	.1460	.0140	-.0340	-.0400	-.0440		-.0710	-.0920	-.0930	-.0240
105.0000									-.0060	.0310
120.0000	.0660	-.0470	-.0700	-.0890	-.0930		-.1110	-.1150	.3300	.2050
135.0000									.1260	.1200
150.0000	-.0680	-.0720	-.0910	-.0830	-.0770		-.0680	-.0670	.0260	.0160
165.0000	-.0930	-.0840	-.0780	-.0750	-.0670		-.0590		.0190	.0680
180.0000	-.1340	-.1210	-.1060	-.1000	-.0850		-.0520	-.0470	-.0360	

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0420		-.1180
40.0000	.0720	-.0080			-.0900
70.0000	-.0780	-.0860	.0770		
90.0000	-.0600	-.0650	-.0530		
105.0000	-.0150	-.0550	-.0690		
110.0000				-.0450	
120.0000	-.0310	-.0650	-.0620	-.0720	
135.0000	-.0560	-.1210	-.0780		
150.0000	-.1110	-.1040	-.0800		
165.0000	.0010	-.0050	-.0480		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB12) (16 MAY 73)

REFERENCE DATA

SREF = 2.[illegible] SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.170

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6840	1.3720	.7710	.1510	.1120	.1310			.1210	
25.0000			.7700	.1890	.1160	.1290			.1240	
40.0000			.7950	.1890	.1530	.1300			.1250	
55.0000			.7490	.2040	.1380	.0700			.0800	
70.0000			.6580	.2030	.0670	.0380			.0960	
90.0000		1.1720	.5440	.0960	.0550	.1060			.0990	
120.0000			.4030	.0710	.0560	.1100			.0930	
142.0000										-.0230
150.0000			.3400	.0540	.0630	.1130			.4640	
157.0000								.6490		
162.0000									.4810	
169.0000									.4850	
172.0000							.7390			
180.0000	1.6840	.8990	.2660	.0610	.0770	.1280			.6640	

MACH (1) = 2.498 BETA (3) = -.170

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1200	.1260	.1210	.1050	.1090	.1050				
20.0000	.1170									
40.0000	.1010	.0840	.1020	.1000	.1220	.1210	.1100		.1220	.1140
55.0000	.0770									
70.0000	.0780	.0000	-.0320	-.0430	-.0510		-.1070	-.1330	-.1350	-.1240
90.0000	.0910	-.0200	-.0570	-.0620	-.0760		-.0950	-.1090	-.0890	-.0500
105.0000									.0000	-.0090
120.0000	.0330	-.0730	-.0940	-.0950	-.0990		-.0780	-.0650	.1470	.1550
135.0000									.1020	.1460
150.0000	-.0880	-.0960	-.1110	-.0910	-.0660		-.0590	-.0590	.0640	.0740
165.0000	-.1140	-.1190	-.1000	-.0770	-.0550		-.0480		.0360	.1370
180.0000	-.1420	-.1250	-.1070	-.0710	-.0530		-.0380	-.0350	-.0280	

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBQB12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.170

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0400		-.0830
40.0000	.0670	-.0270			-.0850
70.0000	-.1220	-.1107	.0330		
90.0000	-.0890	-.0990	-.0800		
105.0000	-.0620	-.0900	-.0900		
110.0000				-.0310	
120.0000	-.0600	-.0970	-.0770	-.0810	
135.0000	-.0600	-.0910	-.0380		
150.0000	-.0220	-.0280	-.0050		
165.0000	.0570	.0100	-.0310		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.020

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6740	1.3680	.7450	.1530	.1060	.1310			.1260	
20.0000			.7430	.1780	.1060	.1250			.1240	
40.0000			.7360	.1780	.1040	.1070			.0990	
55.0000			.6730	.1780	.0910	.0240			.0420	
70.0000			.5670	.1650	.0210	.0510			.0550	
90.0000		1.0850	.4610	.0450	.0140	.0650			.0450	
120.0000			.3440	.0350	.0240	.0610			.1640	
142.0000										-.0500
150.0000			.3040	.0340	.0470	.1040			.3980	
157.0000								.6440		
162.0000									.4670	
169.0000									.4860	
172.0000							.6530			
180.0000	1.6745	.8990	.2640	.0630	.0750	.1180			.6610	

AMES 87-707 OA12 OEA ORBITER FUSELAGE (RB0B12) (16 MAY 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.020

X/LB	.2259	.2711	.3200	.3953	.5120	.5875	.6626	.7380	.7869	.8283
PHI										
.0000	.1270	.1280	.1240	.1130	.1060	.1050				
20.0000	.1170									
40.0000	.0630	.0440	.0670	.0770	.1040	.1120	.1090		.1210	.1150
55.0000	.0330									
70.0000	.0450	-.0180	-.0480	-.0610	-.0750		-.1220	-.1410	-.1410	-.1190
90.0000	.0390	-.0390	-.0740	-.0730	-.0870		-.0970	-.1010	-.0530	-.0780
105.0000									.0180	-.0420
120.0000	.0100	-.0900	-.1040	-.0970	-.0790		-.0630	-.0650	.0570	.0900
135.0000									.1670	.1580
150.0000	-.0980	-.1250	-.1160	-.0760	-.0480		-.0450	-.0450	.1010	.1710
165.0000	-.1320	-.1380	-.1090	-.0690	-.0500		-.0410		.0530	.1920
180.0000	-.1400	-.1280	-.1020	-.1000	-.0880		-.0510	-.0460	-.0370	

MACH (1) = 2.498 BETA (4) = 3.020

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0350		-.1180
40.0000	.0730	-.0310			-.0910
70.0000	-.1480	-.1310	-.0120		
90.0000	-.1110	-.1310	-.0980		
105.0000	-.1110	-.1240	-.1030		
110.0000				-.0450	
120.0000	-.0730	-.1030	-.0780	-.0730	
135.0000	-.0740	-.0700	-.0210		
150.0000	-.0730	-.0240	-.0030		
165.0000	.0690	.0350	-.0320		

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RB9B12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

X/LB	.0000	.0079	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6630	1.3530	.7820	.1500	.0980	.1270			.1270	
20.0000			.7080	.1590	.0970	.1160			.1190	
40.0000			.6690	.1600	.0960	.0820			.0660	
55.0000			.5960	.1550	.0450	-.0170			-.0030	
70.0000			.4860	.1310	-.0200	.0120			.0170	
90.0000		.9940	.3830	.0030	-.0240	.0240			.0170	
120.0000			.2880	.0020	-.0080	.0290			.0730	
142.0000										-.0750
150.0000			.2700	.0160	.0300	.0630			.3270	
157.0000								.4790		
162.0000									.4570	
169.0000									.4790	
172.0000							.5570			
180.0000	1.6630	.8960	.2620	.0580	.0740	.0950			.6380	

MACH (1) = 2.498 BETA (5) = 6.200

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1270	.1270	.1230	.1160	.1040	.0990				
20.0000	.1130									
40.0000	.0230	-.0060	.0120	.0370	.0880	.0970	.1020		.1090	.1120
55.0000	-.0110									
70.0000	.0340	-.0350	-.0620	-.0790	-.0970		-.1290	-.1470	-.1400	-.1300
90.0000	.0420	-.0580	-.0890	-.0890	-.1010		-.0940	-.1060	-.0830	-.0980
105.0000									-.0380	-.0540
120.0000	-.0140	-.1070	-.1130	-.1070	-.0700		-.0700	-.0740	.0350	.0450
135.0000									.2980	.2020
150.0000	-.1140	-.1460	-.1250	-.0820	-.0560		-.0530	-.0580	.0750	.1780
165.0000	-.1520	-.1490	-.1260	-.0850	-.0680		-.0560		.0430	.1740
180.0000	-.1370	-.1410	-.1410	-.1420	-.1240		-.0970	-.0770	-.0640	

AMES 67-707 OA12 02A ORBITER FUSELAGE (RBQB12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0450		-.0920
40.0000	.0850	-.0290			-.1010
70.0000	-.1430	-.1100	-.0460		
90.0000	-.1100	-.1100	-.1130		
105.0000	-.1000	-.1140	-.1170		
110.0000				-.0550	
120.0000	-.0750	-.0980	-.0880	-.0930	
135.0000	-.0770	-.0640	-.0530		
150.0000	-.0780	-.0710	-.0220		
165.0000	.0060	-.0020	-.0240		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.750

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6690	1.3510	.7370	.1790	.0890	.1060			.0970	
20.0000			.8070	.1780	.1310	.1110			.1070	
40.0000			.9140	.1950	.2040	.1480			.1410	
55.0000			.9090	.2480	.2360	.1570			.1480	
70.0000			.8440	.2840	.1750	.1490			.1490	
90.0000		1.3370	.7220	.2480	.1590	.1390			.1640	
120.0000			.5270	.1740	.1380	.1550			.1610	
142.0000										.0800
150.0000			.40.0	.1200	.1070	.1400			.4680	
157.0000								.5700		
162.0000									.5050	
169.0000									.4700	
172.0000							.5290			
180.0000	1.6690	.8730	.2830	.0920	.0840	.0950			.5950	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.750

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0940	.0990	.0980	.0960	.0960	.0880				
20.0000	.1030									
40.0000	.1430	.1260	.1300	.1180	.1370	.1360	.1280		.1110	.1050
55.0000	.1530									
70.0000	.1550	.0790	.0450	.0300	.0290		-.0100	-.0450	-.0350	-.0360
90.0000	.1560	.0690	.0260	.0070	.0000		-.0130	-.0290	-.0280	.0110
105.0000									.0000	.0570
120.0000	.1010	.0010	-.0160	-.0250	-.0460		-.0580	-.0630	.3730	.2340
135.0000									.0490	.0880
150.0000	-.0010	-.0260	-.0350	-.0350	-.0420		-.0590	-.0660	-.0330	-.0320
155.0000	-.0200	-.0220	-.0300	-.0260	-.0390		-.0540		-.0400	.0010
180.0000	-.0520	-.0620	-.0780	-.0710	-.0830		-.0740	-.0660	-.0490	

MACH (2) = 3.502 BETA (1) = -6.750

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0170		-.0770
40.0000	.0580	.0080			-.0570
70.0000	-.0150	-.0150	.0520		
90.0000	.0260	.0030	.0240		
105.0000	.0270	.0400	.0210		
110.0000				-.0280	
120.0000	.0570	.0180	.0180	.0100	
135.0000	-.0330	-.0830	-.0590		
150.0000	-.0890	-.0870	-.0800		
165.0000	-.0310	-.0190	-.0290		

AMES 87-707 OA12 02A ORBITER FUSELAGE (SB3B12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION : 1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -3.460

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7160	1.3860	.7570	.2160	.1200	.1070			.1020	
20.0000			.8040	.2290	.1320	.1100			.1070	
40.0000			.8760	.2280	.1840	.1350			.1290	
55.0000			.8510	.2640	.1910	.1120			.1040	
70.0000			.7680	.2740	.1330	.1080			.1140	
90.0000		1.2830	.6490	.1890	.1200	.1030			.1270	
120.0000			.4820	.1880	.1120	.1240			.1150	
142.0000										.0530
150.0000			.3850	.1140	.0970	.1240			.4210	
157.0000								.5770		
162.0000									.4710	
169.0000									.4700	
172.0000							.5100			
180.0000	1.7160	.9010	.2890	.0990	.0900	.1040			.6390	

MACH (2) = 3.502 BETA (2) = -3.460

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7883	.8283
PHI										
.0000	.1000	.1020	.1030	.0960	.0950	.0870				
20.0000	.1040									
40.0000	.1200	.1050	.1120	.1040	.1250	.1230	.1170		.1910	.0910
55.0000	.1090									
70.0000	.1130	.0440	.0220	.0050	.0000		-.0350	-.0600	-.0530	-.0540
90.0000	.1120	.0360	.0020	-.0140	-.0180		-.0340	-.0510	-.0470	-.0170
105.0000									-.0220	.0210
120.0000	.0630	-.0120	-.0280	-.0350	-.0530		-.0670	-.0730	.2480	.1640
135.0000									.0570	.0790
150.0000	-.0130	-.0300	-.0410	-.0420	-.0500		-.0580	-.0600	-.0140	-.0190
165.0000	-.0270	-.0420	-.0390	-.0380	-.0450		-.0490		-.0240	.0130
180.0000	-.0540	-.0610	-.0580	-.0590	-.0650		-.0480	-.0470	-.0350	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQB12) (16 MAY 73)

AMES 87-707 OA12 02A ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -3.460

X/LB	.6848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0360		-.0710
40.0000	.0670	.0180			-.0520
70.0000	-.0280	-.0000	.0040		
90.0000	-.0300	-.0120	-.0080		
105.0000	.0270	.0150	-.0050		
110.0000				-.0270	
120.0000	.0310	.0010	-.0060	-.0130	
135.0000	-.0410	-.0640	-.0410		
150.0000	-.0680	-.0700	-.0590		
165.0000	-.0140	-.0110	-.0290		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.160

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7310	1.4010	.7660	.1930	.1220	.1110			.1010	
20.0000			.7860	.2210	.1290	.1090			.1050	
40.0000			.8200	.2210	.1590	.1170			.1090	
55.0000			.7730	.2360	.1490	.0690			.0620	
70.0000			.6760	.2380	.0910	.0700			.0800	
90.0000		1.1980	.5620	.1370	.0810	.0800			.0860	
120.0000			.4200	.1280	.0800	.0970			.0680	
142.0000										.0180
150.0000			.3570	.0940	.0930	.1040			.3640	
157.0000								.3570		
162.0000									.4470	
169.0000									.4720	
172.0000							.5590			
180.0000	1.7310	.9100	.2930	.0970	.0920	.1080			.6500	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0B12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1010	.1060	.1030	.0940	.0900	.0860				
20.0000	.1020									
40.0000	.0910	.0740	.0860	.0870	.1020	.1070	.1050		.0960	.0910
55.0000	.0680									
70.0000	.0710	.0130	-.0030	-.0220	-.0290		-.0520	-.0730	-.0730	-.0690
90.0000	.0700	.0070	-.0180	-.0320	-.0410		-.0530	-.0640	-.0600	-.0340
105.0000									-.0240	-.0110
120.0000	.0310	-.0240	-.0420	-.0490	-.0580		-.0620	-.0600	.1160	.0860
135.0000									.0520	.0850
150.0000	-.0270	-.0420	-.0530	-.0540	-.0460		-.0500	-.0490	.0150	.0270
165.0000	-.0390	-.0350	-.0540	-.0480	-.0400		-.0400		-.0090	.0320
180.0000	-.0620	-.0580	-.0590	-.0470	-.0400		-.0360	-.0350	-.0260	

MACH (2) = 3.502 BETA (3) = -.160

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0400		-.0740
40.0000	.0690	.0130			-.0520
70.0000	-.0530	-.0620	-.0290		
90.0000	-.0290	-.0410	-.0350		
105.0000	-.0300	-.0170	-.0310		
110.0000				-.0140	
120.0000	-.0090	-.0240	-.0300	-.0340	
135.0000	-.0090	-.0460	-.0280		
150.0000	-.0340	-.0240	-.0150		
165.0000	.0240	.0130	-.0140		

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.140

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7230	1.3910	.7590	.2390	.1180	.1100			.1020	
20.0000			.7510	.2020	.1150	.1040			.0990	
40.0000			.7460	.2020	.1250	.0990			.0860	
55.0000			.6860	.2070	.1050	.0300			.0330	
70.0000			.5800	.1960	.0550	.0410			.0480	
90.0000		1.0970	.4720	.0900	.0470	.0540			.0520	
120.0000			.3580	.0860	.0530	.0660			.0330	-.0070
142.0000									.3060	
150.0000			.3210	.0740	.0700	.0870		.5500		
157.0000									.4440	
162.0000									.4710	
169.0000							.4910			
172.0000									.6290	
180.0000	1.7230	.9070	.2900	.0910	.0900	.1040				

MACH (2) = 3.502 BETA (4) = 3.140

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0980	.1050	.1010	.0940	.0920	.0850				
20.0000	.0940									
40.0000	.0570	.0420	.0540	.0630	.0810	.0900	.0960		.0930	.0890
55.0000	.0290									
70.0000	.0350	-.0040	-.0210	-.0370	-.0470		-.0660	-.0830	-.0770	-.0740
90.0000	.0350	-.0120	-.0340	-.0440	-.0470		-.0660	-.0720	-.0490	-.0440
105.0000									-.0160	-.0300
120.0000	.0090	-.0390	-.0530	-.0540	-.0560		-.0540	-.0540	.0290	.0530
135.0000									.0670	.0830
150.0000	-.0360	-.0570	-.0660	-.0550	-.0400		-.0440	-.0440	.0220	.0940
165.0000	-.0960	-.0840	-.0660	-.0500	-.0420		-.0420		-.0040	.0780
180.0000	-.0800	-.0600	-.0610	-.0610	-.0660		-.0490	-.0480	-.0360	

AMSA 87-707 OA12 O2A ORBITER FUSELAGE (RBOB12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.140

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0290		-.0740
40.0000	.0780	-.0020			-.0570
70.0000	-.0810	-.0860	-.0440		
90.0000	-.0630	-.0680	-.0560		
105.0000	-.0630	-.0560	-.0510		
110.0000				-.0080	
120.0000	-.0380	-.0530	-.0390	-.0420	
135.0000	-.0370	-.0530	-.0270		
150.0000	-.0410	-.0390	-.0120		
165.0000	.0330	.0090	-.0070		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 6.430

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6720	1.3520	.7690	.2180	.1100	.1030			.0950	
20.0000			.7050	.1840	.1030	.0940			.0910	
40.0000			.6730	.1810	.0930	.0720			.0600	
55.0000			.6020	.1670	.0680	-.0020			.0070	
70.0000			.4860	.1530	.0220	.0120			.0210	
90.0000		.9820	.3840	.0480	.0140	.0270			.0200	
120.0000			.2920	.0450	.0240	.0340			.0090	
142.0000										-.0240
150.0000			.2750	.0540	.0480	.0620			.2430	
157.0000								.4780		
162.0000									.4370	
169.0000									.4460	
172.0000							.4740			
180.0000	1.6720	.8810	.2780	.0780	.0800	.0860			.5870	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 6.430

X/LB	.2255	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0960	.0990	.0990	.0960	.0950	.0880				
20.0000	.0880									
40.0000	.0280	.0040	.0120	.0260	.0590	.0730	.0780		.0770	.0750
55.0000	-.0060									
70.0000	.0070	-.0220	-.0360	-.0530	-.0660		-.0750	-.0940	-.0870	-.0810
90.0000	.0210	-.0270	-.0490	-.0570	-.0660		-.0690	-.0740	-.0640	-.0640
105.0000									-.0400	-.0410
120.0000	-.0120	-.0540	-.0640	-.0590	-.0650		-.0570	-.0590	.0120	.0130
135.0000									.1580	.1120
150.0000	-.0490	-.0700	-.0790	-.0640	-.0490		-.0560	-.0550	.0010	.0620
165.0000	-.0790	-.0770	-.0760	-.0650	-.0570		-.0580		-.0240	.0520
180.0000	-.0600	-.0670	-.0860	-.0800	-.0830		-.0740	-.0660	-.0520	

MACH (2) = 3.502 BETA (5) = 6.430

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0160		-.0840
40.0000	.0530	-.0220			-.0660
70.0000	-.0920	-.0610	-.0530		
90.0000	-.0840	-.0820	-.0690		
105.0000	-.0840	-.0750	-.0680		
110.0000				-.0490	
120.0000	-.0590	-.0660	-.0540	-.0560	
135.0000	-.0580	-.0580	-.0370		
150.0000	-.0580	-.0680	-.0510		
165.0000	-.0210	-.0480	-.0400		

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB13) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1906	.1581	.1732	.1958
PHI										
.0000	1.5330	1.5720	1.0300	.3580	.3390	.3320			.3310	
20.0000			1.0950	.4520	.3580	.3470			.3510	
40.0000			1.1160	.5230	.4220	.3620			.3760	
55.0000			1.0230	.5220	.3530	.1740			.1650	
70.0000			.8740	.3390	.1840	.1760			.1730	
90.0000		1.2300	.6490	.1790	.1430	.1310			.1310	
120.0000			.3510	.0480	.0500	.0550			.2130	
142.0000										.0150
150.0000			.2040	-.0220	-.0120	.0540			.3420	
157.0000								.4420		
162.0000									.3640	
169.0000									.2960	
172.0000							.3860			
180.0000	1.5330	.6120	.0880	-.0530	-.0360	.0300			.4220	

MACH (1) = 2.498 BETA (1) = -6.490

X/LB	.2259	.2711	.3200	.3953	.5120	.5673	.6626	.7380	.7869	.8283
PHI										
.0000	.3370	.3350	.3300	.3140	.2960	.2970				
20.0000	.3460									
40.0000	.3270	.2810	.3210	.3340	.3700	.3680	.3530		.3690	.3430
55.0000	.1790									
70.0000	.1660	.0590	.0340	.0250	-.0060		-.1220	-.1670	-.1680	-.1710
90.0000	.1480	.0380	-.0120	-.0180	-.0260		-.0460	-.0940	-.1190	-.1040
105.0000									-.0390	.0450
120.0000	.0740	-.1150	-.1350	-.1360	-.1490		-.1450	-.1350	.4460	.1730
133.0000									.0080	-.0270
150.0000	-.0830	-.1210	-.1170	-.1450	-.1530		-.1330	-.1150	-.0090	-.0580
165.0000	-.1190	-.0730	-.0900	-.1210	-.1640		-.1250		-.0650	.0120
180.0000	-.1650	-.1520	-.1690	-.1360	-.0940		-.1130	-.1150	-.1020	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0813) (16 MAY 73)

REFERENCE DATA

AREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -5.490

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2360		-.1130
40.0000	.3060	.1560			-.1110
70.0000	-.1640	-.1120	-.0280		
90.0000	-.1020	-.1010	-.0910		
105.0000	-.0530	-.0950	-.1000		
110.0000				-.1140	
120.0000	-.0390	-.0840	-.0870	-.1120	
135.0000	-.1150	-.1300	-.1080		
150.0000	-.1160	-.1220	-.1250		
165.0000	-.0740	-.1230	-.1490		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.330

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5490	1.5810	1.0340	.3550	.3320	.3300			.3300	
20.0000			1.0680	.4270	.3420	.3370			.3440	
40.0000			1.0460	.4670	.3630	.3380			.3300	
55.0000			.9340	.4410	.2780	.0970			.0900	
70.0000			.7750	.2640	.1210	.1140			.1130	
90.0000		1.1530	.5640	.1180	.0860	.0820			.0860	
120.0000			.3000	.0110	.0140	.0580			.1560	
142.0000										-.0130
150.0000			.1770	-.0420	-.0280	.0550			.3250	
157.0000								.3710		
162.0000									.3440	
169.0000									.3000	
172.0000							.2400			
180.0000	1.5490	.6200	.0830	-.0590	-.0290	.0400			.4170	

AMES 87-707 OA12 OPA ORBITER FUSELAGE (RBOB13) (18 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.330

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3360	.3300	.3240	.3070	.2910	.2960				
20.0000	.3390									
40.0000	.2660	.2140	.2490	.2950	.3380	.3450	.3270		.3400	.3310
55.0000	.0990									
70.0000	.1100	.0170	-.0050	-.0170	-.0690		-.1490	-.1830	-.1760	-.1810
90.0000	.1070	.0010	-.0460	-.0520	-.0610		-.0940	-.1470	-.1680	-.1590
105.0000									-.0550	-.0380
120.0000	.0380	-.1190	-.1430	-.1500	-.1530		-.1300	-.1160	.3330	.1190
135.0000									.0410	.0030
150.0000	-.1010	-.1310	-.1290	-.1300	-.1590		-.1240	-.1060	.0030	.0170
165.0000	-.1260	-.0960	-.1010	-.1120	-.1220		-.1650		-.0850	.0140
180.0000	-.1660	-.1510	-.1290	-.1030	-.0750		-.0890	-.1030	-.0990	

MACH (1) = 2.498 BETA (2) = -3.330

X/LB	.6848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2230		-.1470
40.0000	.2850	.1170			-.1160
70.0000	-.1840	-.1480	-.1050		
90.0000	-.1700	-.1590	-.1290		
105.0000	-.1290	-.1500	-.1360		
110.0000				-.0890	
120.0000	-.1020	-.1330	-.1210	-.1230	
135.0000	-.1440	-.1530	-.1290		
150.0000	-.1270	-.1500	-.1390		
165.0000	-.0960	-.1470	-.1640		

AMES 67-707 OA12 OBA ORBITER FUSELAGE (RB0B13) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5490	1.5840	1.0350	.3530	.3310	.3290			.3250	
20.0000			1.0340	.4080	.3330	.3260			.3310	
40.0000			.9740	.4160	.3160	.3000			.2800	
55.0000			.8470	.4110	.2140	.0350			.0150	
70.0000			.6750	.2340	.0670	.0590			.0600	
90.0000		1.0730	.4770	.0640	.0370	.0390			.0530	
120.0000			.2440	-.0200	-.0140	.0480			.0690	
142.0000										-.0520
150.0000			.1490	-.0540	-.0090	.0460			.2740	
157.0000								.2570		
162.0000									.2630	
169.0000									.2610	
172.5000							.2080			
180.0000	1.5490	.6190	.0830	-.0620	-.0150	.0580			.3880	

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3500	.3330	.3270	.2970	.2890	.2960				
20.0000	.3230									
40.0000	.2040	.1540	.1910	.2450	.3040	.3170	.3040		.3210	.3150
55.0000	.0020									
70.0000	.0510	-.0120	-.0350	-.0530	-.1340		-.1680	-.1920	-.1870	-.1850
90.0000	.0720	-.0280	-.0710	-.0800	-.0930		-.1430	-.1930	-.1990	-.1980
105.0000									-.0970	-.1210
120.0000	.0050	-.1160	-.1390	-.1590	-.1440		-.1140	-.1150	.1930	.0820
135.0000									.0650	.0330
150.0000	-.1170	-.1340	-.1380	-.1320	-.1750		-.1350	-.1080	.0140	.0400
165.0000	-.1360	-.1160	-.1140	-.0960	-.0960		-.1320		-.0810	.0090
180.0000	-.1620	-.1440	-.0990	-.0760	-.0600		-.0670	-.0760	-.0730	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB13) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.0048	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2340		-.1500
40.0000	.2780	.1030			-.1250
70.0000	-.1800	-.1510	-.1470		
90.0000	-.1980	-.1800	-.1570		
105.0000	-.1930	-.1740	-.1620		
110.0000				-.1060	
120.0000	-.1410	-.1540	-.1390	-.1300	
135.0000	-.1390	-.1490	-.1270		
150.0000	-.1190	-.1170	-.1040		
163.0000	-.0310	-.0610	-.1040		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5460	1.3800	1.0270	.3570	.3300	.3350			.3290	
20.0000			.9970	.3880	.3220	.3220			.3220	
40.0000			.9040	.3650	.2740	.2570			.2340	
55.0000			.7650	.3060	.1590	-.0110			-.0360	
70.0000			.5880	.1420	.0250	.0100			.0180	
90.0000		.9950	.4010	.0230	-.0030	.0020			.0240	
120.0000			.1990	-.0420	-.0370	.0060			.1080	
142.0000										-.0610
150.0000			.1290	-.0650	-.0270	.0330			.2490	
157.0000								.3210		
162.0000									.2540	
169.0000									.2650	
172.0000							.2390			
180.0000	1.5460	.6190	.0850	-.0640	-.0290	.0530			.4020	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0B13) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3330	.3360	.3290	.3040	.2900	.2950				
20.0000	.3170									
40.0000	.1540	.0990	.1330	.1970	.2710	.2920	.2900		.3010	.3020
55.0000	-.0470									
70.0000	.0190	-.0430	-.0590	-.0820	-.1870		-.1780	-.2010	-.1900	-.1860
90.0000	.0560	-.0480	-.0850	-.0990	-.1130		-.1880	-.2180	-.2120	-.2070
105.0000									-.1600	-.1900
120.0000	-.0320	-.1190	-.1360	-.1570	-.1380		-.1230	-.1270	.0670	.0240
135.0000									.0700	.0020
150.0000	-.1170	-.1250	-.1360	-.1130	-.1270		-.1340	-.1190	-.0100	-.0040
165.0000	-.1470	-.1330	-.1120	-.0820	-.0820		-.1050		-.0760	.0720
180.0000	-.1630	-.1490	-.1280	-.1060	-.0780		-.0900	-.1060	-.1050	

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2260		-.1490
40.0000	.2650	.0860			-.1220
70.0000	-.1900	-.1670	-.1560		
90.0000	-.2170	-.2070	-.1700		
105.0000	-.2200	-.2170	-.1850		
110.0000				-.0680	
120.0000	-.1630	-.1790	-.1290	-.1240	
135.0000	-.1660	-.1700	-.1350		
150.0000	-.1540	-.0920	-.0820		
165.0000	.0800	.0360	-.0160		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0B13) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	.0000	0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5280	1.5560	.9640	.3490	.3240	.3260			.3220	
20.0000			.9650	.3590	.3010	.3070			.3070	
40.0000			.8290	.3550	.2220	.2070			.1830	
55.0000			.6780	.3010	.1030	-.0590			-.0790	
70.0000			.4950	.1190	-.0180	-.0400			-.0270	
90.0000		.9070	.3200	-.0230	-.0390	-.0230			-.0150	
120.0000			.1520	-.0700	-.0380	-.0160			.0890	-.0920
142.0000										
150.0000			.1000	-.0820	-.0370	-.0160			.2110	
157.0000								.2730		
162.0000									.2990	
169.0000									.2890	
172.0000							.3510			
180.0000	1.5280	.6130	.0840	-.0700	-.0400	-.0020			.3900	

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3290	.3330	.3260	.3050	.2980	.2930				
20.0000	.3060									
40.0000	.0970	.0410	.0690	.1330	.2430	.2710	.2820		.2850	.2870
55.0000	-.0990									
70.0000	-.0330	-.0700	-.0890	-.1380	-.2080		-.1850	-.2060	-.1880	-.1810
90.0000	.0170	-.0640	-.0970	-.1190	-.1460		-.2200	-.2220	-.2070	-.2030
105.0000									-.2020	-.1920
120.0000	-.0450	-.1200	-.1410	-.1560	-.1380		-.1390	-.1590	-.0600	-.1570
135.0000									.0110	-.0110
150.0000	-.1420	-.1380	-.1420	-.1020	-.1010		-.1370	-.1330	-.0240	-.0460
165.0000	-.1690	-.1560	-.1150	-.0830	-.0850		-.1050		-.0900	.0520
180.0000	-.1690	-.1650	-.1800	-.1400	-.0890		-.1140	-.1170	-.1030	

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RB0813) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2360		-.1740
40.0000	.2690	.0840			-.1750
70.0000	-.1680	-.1650	-.1760		
90.0000	-.1930	-.1900	-.1850		
105.0000	-.1940	-.1910	-.1820		
110.0000				-.0760	
120.0000	-.1910	-.1880	-.1800	-.1730	
135.0000	-.1930	-.1400	-.1190		
150.0000	-.1320	-.0500	-.0450		
165.0000	.0210	-.0060	-.0520		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.710

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5310	1.5640	1.0100	.3610	.2920	.2800			.2840	
20.0000			1.0860	.4410	.3170	.2980			.3080	
40.0000			1.1100	.4400	.3780	.3490			.3490	
55.0000			1.0390	.4750	.3200	.1670			.1430	
70.0000			.8680	.3770	.1830	.1540			.1520	
90.0000		1.2220	.6480	.2040	.1430	.1150			.1180	
120.0000			.3600	.1460	.0700	.0570			.1100	
142.0000										.0190
150.0000			.2230	.0300	.0240	.0490			.2340	
157.0000								.3270		
162.0000									.2730	
169.0000									.2520	
172.0000							.1020			
180.0000	1.5310	.6060	.1230	.0020	.0040	.0240			.3190	

AMES 07-707 OA12 C2A ORBITER FUSELAGE (RBuB13) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.710

X/LB	.2239	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2970	.3010	.3030	.2990	.2890	.2830				
20.0000	.3080									
40.0000	.3230	.2720	.2960	.3150	.3550	.3600	.3450		.3140	.3060
55.0000	.1610									
70.0000	.1490	.0740	.0430	.0330	.0250		-.0460	-.0870	-.0720	-.0720
90.0000	.1240	.0430	.0100	.0040	.0050		-.0110	-.0360	-.0410	-.0360
105.0000									-.0050	.0750
125.0000	.0880	-.0440	-.0600	-.0620	-.0750		-.0760	-.0720	.4330	.2190
135.0000									.0310	.0230
150.0000	-.0300	-.0570	-.0620	-.0740	-.0880		-.0800	-.0740	-.0280	-.0340
165.0000	-.0560	-.0420	-.0510	-.0660	-.0900		-.0790		-.0470	-.0120
180.0000	-.0790	-.0820	-.0850	-.0750	-.0770		-.0810	-.0790	-.0650	

MACH (2) = 3.502 BETA (1) = -6.710

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1840		-.0570
40.0000	.2630	.1490			-.0550
70.0000	-.0670	-.0590	-.0260		
90.0000	-.0350	-.0260	-.0310		
105.0000	-.0320	-.0080	-.0310		
110.0000				-.0590	
120.0000	.0250	-.0150	-.0230	-.0580	
135.0000	-.0650	-.0780	-.0600		
150.0000	-.0910	-.0900	-.0790		
165.0000	-.0420	-.0590	-.0710		

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0B13) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -3.440

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5750	1.6080	1.0360	.3670	.2930	.2820			.2870	
20.0000			1.0840	.4310	.3090	.2910			.3010	
40.0000			1.0680	.4310	.3380	.3100			.3110	
55.0000			.9550	.4380	.2650	.1080			.0780	
70.0000			.7860	.3240	.1330	.1010			.0990	
90.0000		1.1730	.5730	.1540	.0980	.0730			.0710	
120.0000			.3170	.1200	.0420	.0480			.0730	-.0070
142.0000									.2130	
150.0000			.2070	.0150	.0110	.0400		.3050		
157.0000									.2660	
162.0000									.2540	
169.0000							.0790			
172.0000									.3380	
180.0000	1.5750	.6230	.1270	-.0040	.0020	.0230				

MACH (2) = 3.502 BETA (2) = -3.440

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2990	.3070	.3080	.2980	.2830	.2740				
20.0000	.3060									
40.0000	.2740	.227.	.2470	.2790	.3230	.3310	.3220		.2920	.2890
55.0000	.0886									
70.0000	.0930	.0330	.0110	-.0020	-.0250		-.0620	-.0970	-.0840	-.0820
90.0000	.0620	.0130	-.0130	-.0210	-.0280		-.0420	-.0680	-.0740	-.0800
105.0000									-.0330	.0160
120.0000	.0550	-.0520	-.0720	-.0770	-.0860		-.0730	-.0650	.0590	.1500
135.0000									.0260	.0120
150.0000	-.0430	-.0640	-.0726	-.0860	-.0880		-.0810	-.0710	-.0270	-.0150
165.0000	-.0620	-.0570	-.0580	-.0700	-.0930		-.0900		-.0620	-.0050
180.0000	-.0810	-.0790	-.0820	-.0690	-.0600		-.0790	-.0810	-.0650	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0B13) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -3.440

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1810		-.0700
40.0000	.2510	.1290			-.0620
70.0000	-.0850	-.0720	-.0520		
90.0000	-.0900	-.0680	-.0560		
105.0000	-.0910	-.0600	-.0560		
110.0000				-.0710	
120.0000	-.0200	-.0490	-.0450	-.0710	
135.0000	-.0660	-.0820	-.0650		
150.0000	-.0840	-.0870	-.0750		
165.0000	-.0460	-.0720	-.0750		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.760

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.9910	1.6200	1.0400	.3700	.2960	.2860			.2860	
20.0000			1.0430	.4120	.3020	.2060			.2920	
40.0000			.9990	.4130	.2960	.2720			.2660	
55.0000			.8710	.4120	.2130	.0650			.0230	
70.0000			.6920	.2650	.0950	.0620			.0560	
90.0000		1.0940	.4930	.1120	.0640	.0430			.0410	
120.0000			.2710	.1010	.0210	.0060			.0490	
142.0000										-.0140
150.0000			.1860	.0030	.0130	.0350			.1810	
157.0000								.0940		
162.0000									.2320	
169.0000									.2310	
172.0000							.0490			
180.0000	1.9910	.6310	.1300	-.0050	.0190	.0310			.3170	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB13) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2980	.3080	.3060	.2940	.2810	.2720				
20.0000	.2980									
40.0000	.2190	.1690	.1950	.2350	.2870	.3010	.3010		.2760	.2760
50.0000	.0300									
70.0000	.0500	.0040	-.0140	-.0270	-.0740		-.0730	-.1030	-.0860	-.0840
90.0000	.0520	-.0100	-.0320	-.0430	-.0490		-.0750	-.1000	-.0950	-.1050
105.0000									-.0610	-.0460
120.0000	.0320	-.0590	-.0770	-.0830	-.0850		-.0750	-.0710	.1850	.0880
135.0000									.0160	.0180
150.0000	-.0510	-.0690	-.0760	-.0820	-.0950		-.0840	-.0790	-.0400	.0040
165.0000	-.0650	-.0650	-.0660	-.0630	-.0780		-.1030		-.0630	-.0260
180.0000	-.0820	-.0770	-.0670	-.0480	-.0490		-.0640	-.0710	-.0620	

MACH (2) = 3.502 BETA (3) = -.160

X/LB	.8948	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1620		-.0700
40.0000	.2220	.0900			-.0650
70.0000	-.1080	-.1000	-.0660		
90.0000	-.1170	-.1210	-.0800		
105.0000	-.1170	-.1070	-.0790		
110.0000				-.0670	
120.0000	-.0790	-.0960	-.0670	-.0670	
135.0000	-.0780	-.1110	-.0700		
150.0000	-.1010	-.1030	-.0650		
165.0000	-.0750	-.0810	-.0660		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB13) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.160

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5780	1.6100	1.0250	.3370	.2910	.2840			.2830	
20.0000			1.0260	.3700	.2860	.2740			.2800	
40.0000			.9210	.3690	.2530	.2290			.2200	
55.0000			.7760	.3690	.1620	.0240			-.0140	
70.0000			.5960	.2190	.0570	.0220			.0180	
90.0000		1.0020	.4120	.0690	.0290	.0190			.0200	
120.0000			.2260	.0440	.0000	.0260			.0260	
142.0000										-.0300
150.0000			.1590	-.0070	-.0020	.0200			.1250	
157.0000								.1120		
162.0000									.2270	
169.0000									.2410	
172.0000							.0580			
180.0000	1.5780	.6270	.1300	-.0110	.0010	.0210			.3350	

MACH (2) = 3.502 BETA (4) = 3.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2980	.3030	.3080	.2920	.2830	.2750				
20.0000	.2860									
40.0000	.1560	.1150	.1410	.1840	.2510	.2750	.2800		.2620	.2590
55.0000	-.0120									
70.0000	.0110	-.0220	-.0390	-.0520	-.1030		-.0800	-.1130	-.0900	-.0880
90.0000	.0260	-.0300	-.0460	-.0560	-.0630		-.1100	-.1180	-.1100	-.1080
105.0000									-.1050	-.1090
120.0000	-.0080	-.0620	-.0840	-.0890	-.0870		-.0880	-.0900	.0920	.0050
135.0000									-.0190	-.0090
150.0000	-.0600	-.0680	-.0770	-.0800	-.0970		-.0880	-.0840	-.0460	-.0300
165.0000	-.0770	-.0770	-.0740	-.0610	-.0630		-.0840		-.0640	-.0420
180.0000	-.0840	-.0820	-.0840	-.0700	-.0590		-.0780	-.0850	-.0650	

AMES 87-707 OA12 02A ORBITER FUSELAGE (R80B13) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.160

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1680		-.0850
40.0000	.2270	.0890			-.0700
70.0000	-.0950	-.0900	-.0720		
90.0000	-.1000	-.1210	-.0960		
105.0000	-.1240	-.1260	-.1020		
110.0000				-.0500	
120.0000	-.0810	-.0930	-.0740	-.0770	
135.0000	-.1080	-.1040	-.0780		
150.0000	-.1050	-.0980	-.0770		
165.0000	-.0510	-.0600	-.0520		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 6.470

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	.5340	1.5590	.9810	.3280	.2870	.2770			.2790	
20.0000			.9440	.3540	.2670	.2540			.2650	
40.0000			.8270	.3540	.2100	.1890			.1740	
55.0000			.6780	.3550	.1120	-.0070			-.0410	
70.0000			.5040	.2030	.0220	-.0080			-.0150	
90.0000		.8930	.3390	.0340	.0030	.0050			.0070	
125.0000			.1800	.0060	-.0160	.0050			.0090	
142.0000										-.0460
150.0000			.1350	-.0180	-.0170	.0020			.1420	
157.0000								.1830		
162.0000									.2330	
169.0000									.2210	
172.0000							.1610			
180.0000	1.5340	.6080	.1230	-.0100	-.0070	.0070			.3110	

AMES 87-707 OA12 02A ORBITER FUSELAGE (R8QB13) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 6.470

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2910	.3000	.3020	.2930	.2880	.2800				
20.0000	.2740									
40.0000	.1160	.0690	.0920	.1310	.2080	.2380	.2520		.2440	.2370
55.0000	-.0430									
70.0000	-.0230	-.0460	-.0550	-.0950	-.1080		-.0860	-.1160	-.0920	-.0910
90.0000	.0050	-.0450	-.0580	-.0710	-.0870		-.1180	-.1220	-.1110	-.1080
105.0000									-.1130	-.1080
120.0000	-.0240	-.0630	-.0810	-.0880	-.0880		-.0930	-.1040	-.0910	-.1070
135.0000									-.0210	-.0340
150.0000	-.0710	-.0810	-.0810	-.0770	-.0780		-.0910	-.0950	-.0610	-.0480
165.0000	-.0860	-.0870	-.0790	-.0560	-.0670		-.0860		-.0720	-.0340
180.0000	-.0840	-.0880	-.0930	-.0790	-.0810		-.0870	-.0850	-.0700	

MACH (2) = 3.502 BETA (5) = 6.470

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1650		-.0880
40.0000	.2120	.0780			-.0730
70.0000	-.1010	-.0890	-.0790		
90.0000	-.1020	-.1210	-.0990		
105.0000	-.1240	-.1250	-.1010		
110.0000				-.0620	
120.0000	-.1270	-.1250	-.0990	-.0950	
135.0000	-.1250	-.1190	-.0990		
150.0000	-.1270	-.1010	-.0600		
165.0000	-.0700	-.0710	-.0620		

AMES 87-757 OA12 OBA ORBITER FUSELAGE (RBQB14) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6870	1.0770	.4800	.0080	-.0250	.0030			-.0010	
20.0000			.5410	.0440	-.0270	-.0080			-.0090	
40.0000			.6930	.1250	.0710	.0110			-.0110	
55.0000			.7560	.1380	.1620	.1630			.1660	
75.0000			.7820	.2320	.1750	.1870			.2010	
90.0000		1.3580	.7680	.2490	.1890	.2130			.2060	
120.0000			.7210	.2850	.2520	.2910			.3980	
142.0000										.1240
150.0000			.6600	.2590	.2760	.3450			.8560	
157.0000								1.0110		
162.0000									.8510	
169.0000									.7710	
172.0000							.9710			
180.0000	1.8870	1.1520	.5090	.2490	.2450	.3310			.9990	

MACH (1) = 2.498 BETA (1) = -6.440

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6526	.7380	.7869	.8283
PHI										
.0000	.0060	.0120	.0160	.0110	.0070	-.0020				
20.0000	-.0060									
40.0000	-.0200	-.0270	-.0500	-.0540	-.0120	-.0390	-.0100		-.0230	-.0380
55.0000	.1610									
75.0000	.2130	.0720	.0080	.0450	.0630		.0020	-.0270	-.0160	.1550
90.0000	.2140	.0500	.0110	.0120	.0440		.0150	-.0120	.0290	.1050
105.0000									.1140	.1540
125.0000	.1730	.0080	-.0170	.0030	.0060		.0020	-.0110	.3560	.2760
135.0000									.3380	.3280
150.0000	.0260	-.0020	-.0170	-.0170	-.0220		-.0110	-.0160	.0790	.1260
165.0000	-.0220	-.0190	-.0060	-.0170	-.0190		-.0030		.1020	.1990
180.0000	-.0810	-.0800	-.0610	-.0710	-.0920		-.1090	-.0650	-.0280	

AMES 67-707 OA12 02A ORBITER FUSELAGE (RB0814) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0500		-.1120
40.0000	-.0390	-.0890			-.0740
70.0000	.3430	.3630	.1630		
90.0000	.3230	.5100	.3170		
105.0000	.2650	.4160	.4540		
110.0000				.1650	
120.0000	.0980	.0870	.2100	.2330	
135.0000	-.0210	-.0150	.0010		
150.0000	-.0660	-.0150	.0470		
165.0000	.1390	.1810	.0670		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7030	1.0860	.4840	.0090	-.0300	.0010			.0020	
20.0000			.5240	.0350	-.0240	-.0050			-.0050	
40.0000			.6430	.1040	.0440	.0010			-.0130	
55.0000			.6820	.1050	.1090	.1110			.1130	
70.0000			.6880	.1640	.1150	.1340			.1370	
90.0000		1.2730	.6740	.1820	.1280	.1600			.1570	
120.0000			.6460	.2300	.1950	.2340			.3120	
142.0000										.0700
150.0000			.6160	.2320	.2450	.3060			.7750	
157.0000								.9500		
162.0000									.8040	
169.0000									.7760	
172.0000							.9640			
180.0000	1.7030	1.1620	.5060	.2460	.2460	.3300			1.0150	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0B14) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0090	.0170	.0180	.0130	.0110	.0060				
20.0000	-.0030									
40.0000	-.0180	-.0240	-.0320	-.0300	.0050	.0060	.0010		-.0110	-.0240
55.0000	.1080									
70.0000	.1570	.0290	-.0260	.0030	.0250		-.0230	-.0510	-.0440	.1380
90.0000	.1460	.0070	-.0220	-.0240	.0060		-.0080	-.0340	-.0010	.0750
105.0000									.0770	.0770
120.0000	.1220	-.0300	-.0360	-.0350	-.0210		-.0050	-.0170	.3070	.2000
135.0000									.3640	.3230
150.0000	.0020	-.0370	-.0480	-.0410	-.0310		-.0160	-.0130	.0990	.1910
165.0000	-.0480	-.0600	-.0400	-.0390	-.0310		-.0160		.1070	.2320
180.0000	-.0870	-.0760	-.0610	-.0510	-.0480		-.0420	-.0360	.0530	

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0520		-.1070
40.0000	-.0540	-.0920			-.0630
70.0000	.2270	.2760	.0830		
90.0000	.2240	.4110	.3080		
105.0000	.2220	.2660	.3840		
110.0000				.1430	
120.0000	.0370	.0450	.1580	.1890	
135.0000	-.0360	-.0260	.0130		
150.0000	-.0430	.0130	.0700		
165.0000	.1590	.1460	.0390		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB14) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0390 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.170

X/LB	.0000	.0079	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1959
PHI										
.0000	1.7040	1.0890	.4840	.0080	-.0320	.0030			.0030	
20.0000			.5080	.0260	-.0290	-.0020			.0010	
40.0000			.5880	.0760	.0200	-.0010			-.0040	
55.0000			.6060	.0780	.0630	.0680			.0680	
70.0000			.5960	.0770	.0630	.0890			.0890	
90.0000		1.1840	.5810	.1210	.0720	.1020			.1020	
120.0000			.5690	.1750	.1450	.1400			.2020	
142.0000										.0240
150.0000			.5670	.2030	.2160	.2650			.6900	
157.0000								.9060		
162.0000									.7450	
169.0000									.7700	
172.0000							.9780			
180.0000	1.7040	1.1690	.5040	.2420	.2470	.3120			1.0100	

MACH (1) = 2.498 BETA (3) = -.170

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0080	.0160	.0190	.0150	.0110	.0050				
20.0000	.0040									
40.0000	-.0070	-.0110	-.0140	-.0110	.0090	.0090	.0070		-.0040	-.0140
55.0000	.0680									
70.0000	.1080	-.0080	-.0560	-.0280	-.0100		-.0370	-.0610	-.0580	.0830
90.0000	.0880	-.0290	-.0540	-.0570	-.0240		-.0210	-.0440	-.0060	.0190
105.0000									.0600	.0290
120.0000	.0680	-.0650	-.0620	-.0640	-.0370		-.0100	-.0130	.1860	.1320
135.0000									.3500	.3280
150.0000	-.0270	-.0710	-.0720	-.0490	-.0370		-.0200	-.0120	.1330	.2660
165.0000	-.0680	-.0890	-.0670	-.0480	-.0350		-.0240		.1410	.2490
180.0000	-.0930	-.0710	-.0670	-.0450	-.0350		-.0280	-.0130	-.0060	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB14) (16 MAY 73)

REFERENCE DATA

BREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

EREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.170

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0470		-.1040
40.0000	-.0390	-.0780			-.0610
70.0000	.2150	.1950	.0470		
90.0000	.2130	.3430	.1900		
105.0000	.1270	.2330	.2810		
110.0000				-.0020	
120.0000	-.0240	-.0020	.1300	.1020	
135.0000	-.0340	-.0310	.0270		
150.0000	.0080	.0430	.0280		
165.0000	.1710	.1300	.0210		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7010	1.0870	.4850	.0060	-.0290	-.0010			-.0030	
20.0000			.4840	.0170	-.0370	-.0050			.0000	
40.0000			.5350	.0410	-.0060	-.0090			-.0050	
55.0000			.5350	.0430	.0190	.0280			.0280	
70.0000			.5080	.0410	.0150	.0400			.0430	
90.0000		1.0910	.4890	.0430	.0220	.0500			.0770	
120.0000			.4920	.1120	.0970	.0900			.1480	
142.0000										-.0180
150.0000			.5170	.1670	.1830	.2150			.5950	
157.0000								.8450		
162.0000									.7170	
169.0000									.7670	
172.0000							.9640			
180.0000	1.7010	1.1680	.5010	.2260	.2420	.3040			.9980	

AMES 87-707 OA12 OEA ORBITER FUSELAGE (RB0314) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0040	.0140	.0110	.0080	.0080	.0050				
20.0000	.0000									
40.0000	-.0040	-.0050	.0060	-.0060	.0060	.0090	.0080		.0040	-.0050
55.0000	.0400									
70.0000	.0660	-.0320	-.0750	-.0510	-.0300		-.0430	-.0650	-.0580	.0650
90.0000	.0400	-.0580	-.0740	-.0770	-.0390		-.0290	-.0460	.0020	.0030
105.0000									.0300	-.0030
120.0000	.0150	-.0910	-.0920	-.0810	-.0520		-.0190	-.0230	.1220	.0780
135.0000									.4770	.3220
150.0000	-.0560	-.1010	-.0880	-.0680	-.0480		-.0330	-.0210	.1560	.4190
165.0000	-.0890	-.1040	-.0810	-.0560	-.0470		-.0450		.0400	.3290
180.0000	-.0920	-.0750	-.0670	-.0580	-.0490		-.0420	-.0360	.0260	

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0460		-.1020
40.0000	-.0250	-.0540			-.0630
70.0000	.1850	.1830	.0440		
90.0000	.2000	.2560	.1500		
105.0000	.2000	.2050	.2050		
110.0000				-.0050	
120.0000	-.0630	-.0110	.0900	.0810	
135.0000	-.0640	-.0360	-.0110		
150.0000	.0210	.0400	-.0100		
165.0000	.1800	.0820	.0220		

AMES 97-7C7 OA12 OBA ORBITER FUSELAGE (RBQB14) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.290

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1953
PHI										
.0000	1.6800	1.0700	.4690	.0050	-.0280	-.0020			.0000	
20.0000			.4600	.0080	-.0430	-.0060			.0020	
40.0000			.4630	.0100	-.0300	-.0110			-.0010	
55.0000			.4670	.0130	-.0130	.0020			.0060	
70.0000			.4290	.0140	-.0220	.0190			.0240	
90.0000		.9980	.4090	.0100	-.0160	.0120			.0550	
120.0000			.4250	.0380	.0620	.0340			.0440	
142.0000										-.0460
150.0000			.4730	.1400	.1610	.1870			.5140	
157.0000								.7450		
162.0000									.6980	
169.0000									.7630	
172.0000							.9210			
180.0000	1.6800	1.1600	.4970	.2140	.2430	.3010			.9850	

MACH (1) = 2.498 BETA (5) = 6.290

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0040	.0100	.0120	.0090	.0010	.0000				
20.0000	.0040									
40.0000	-.0010	-.0010	.0020	-.0050	.0050	.0080	.0050		.0100	.0030
55.0000	.0230									
70.0000	.0380	-.0560	-.0900	-.0670	-.0390		-.0380	-.0580	-.0020	.0590
90.0000	-.0080	-.0850	-.0940	-.0950	-.0440		-.0230	-.0370	.0030	.0350
105.0000									.0200	-.0130
120.0000	-.0310	-.1170	-.1210	-.0960	-.0650		-.0250	-.0260	.1510	.0550
135.0000									.3500	.3510
150.0000	-.0810	-.1210	-.1080	-.0840	-.0600		-.0650	-.0650	.0790	.1970
165.0000	-.1130	-.1080	-.0930	-.0800	-.0960		-.0850		.0590	.2110
180.0000	-.0860	-.0900	-.0640	-.0690	-.0930		-.1060	-.0650	-.0260	

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RB0B14) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -40.000 FLAP = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.290

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0500		-.1130
40.0000	-.0160	-.0690			-.0760
70.0000	.1270	.1980	.0450		
90.0000	.0890	.2250	.1630		
105.0000	.0860	.0730	.1590		
110.0000				.1070	
120.0000	-.0820	-.0590	-.0260	.0510	
135.0000	-.0850	-.0630	-.0450		
150.0000	.0110	.0260	-.0430		
165.0000	.0860	.0140	-.0330		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (1) = -6.670

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1956
PHI										
.0000	1.6850	1.0620	.4870	.0600	.0250	.0090			.0010	
20.0000			.5440	.0840	.0160	.0030			-.0020	
40.0000			.6950	.0840	.0830	.0250			.0120	
55.0000			.7550	.1220	.1560	.1350			.1400	
70.0000			.7730	.2250	.1660	.1550			.1600	
90.0000		1.3620	.7600	.2590	.1740	.1790			.1490	
120.0000			.7090	.2860	.2280	.2480			.3290	
142.0000										.1660
150.0000			.6430	.2860	.2440	.2900			.8390	
157.0000								.9590		
162.0000									.9359	
169.0000									.8770	
172.0000							.8870			
180.0000	1.6850	1.1430	.5020	.2440	.2190	.2490			1.1160	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB14) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (1) = -6.670

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0050	.0060	.0030	.0010	-.0040	-.0090				
20.0000	-.0080									
40.0000	.0060	.0000	-.0200	-.0390	-.0230	-.0170	-.0130		-.0210	-.0270
55.0000	.1360									
70.0000	.1730	.0840	.0340	.0480	.0560		.0220	.0160	.0950	.1110
90.0000	.1840	.0690	.0330	.0230	.0410		.0280	.0080	.0660	.1790
105.0000									.1000	.1710
120.0000	.1690	.0410	.0100	.0130	.0090		.0120	.0040	.2840	.2870
135.0000									.2840	.3320
150.0000	.0590	.0320	.0090	-.0070	-.0080		-.0020	-.0030	.0540	.1230
165.0000	.0460	.0080	.0090	-.0080	-.0080		.0010		.0580	.1260
180.0000	-.0100	-.0230	-.0370	-.0500	-.0550		-.0660	-.0550	-.0350	

MACH (2) = 3.503 BETA (1) = -6.670

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0370		-.0420
40.0000	-.0400	-.0550			-.0420
70.0000	.1150	.2230	.0800		
90.0000	.1670	.1480	.2240		
105.0000	.1680	.1480	.1720		
110.0000				.0270	
120.0000	.1110	.1170	.1110	.1040	
135.0000	.0370	.0000	.0180		
150.0000	-.0280	-.0130	.0160		
165.0000	.0820	.1460	.0770		

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RB0814) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.5000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (2) = -3.420

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1806	.1581	.1732	.1958
PHI										
.0000	1.7350	1.0970	.5270	.0680	.0220	.0120			.0070	
20.0000			.5420	.0840	.0190	.0090			.0090	
40.0000			.6990	.0850	.0660	.0200			.0100	
55.0000			.6980	.1100	.1250	.0990			.1030	
70.0000			.7010	.1880	.1260	.1150			.1190	
90.0000		1.2970	.6850	.2090	.1340	.1390			.1060	
120.0000			.6440	.2480	.1930	.1980			.2540	
142.0000										.1270
150.0000			.6190	.2480	.2290	.2610			.7520	
157.0000								.9220		
162.0000									.8880	
169.0000									.8800	
172.0000							.9190			
180.0000	1.7350	1.1800	.5160	.2490	.2270	.2560			1.1400	

MACH (2) = 3.503 BETA (2) = -3.420

X/LB	.2299	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0100	.0090	.0060	.0010	-.0030	-.0030				
20.0000	.0020									
40.0000	.0000	-.0070	-.0150	-.0270	-.0100	-.0040	-.0040		-.0110	-.0160
55.0000	.0060									
70.0000	.1200	.0310	.0060	.0160	.0230		-.0020	-.0170	.0550	.0740
90.0000	.1260	.0350	.0050	-.0070	.0130		.0050	-.0120	.0300	.1140
109.0000									.0540	.0990
120.0000	.1230	.0110	-.0100	-.0080	-.0150		-.0050	-.0080	.2510	.2020
135.0000									.2700	.3010
150.0000	.0390	.0070	-.0150	-.0230	-.0190		-.0110	-.0100	.0550	.1400
165.0000	.0250	-.0140	-.0130	-.0270	-.0200		-.0160		.0580	.1380
180.0000	-.0160	-.0290	-.0330	-.0280	-.0320		-.0290	-.0300	.0060	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQB14) (16 MAY 73)

AMES 67-707 OA12 OBA ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (2) = -3.420

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0290		-.0390
40.0000	-.0350	-.0490			-.0300
70.0000	.0720	.1630	.0820		
90.0000	.1140	.0950	.1670		
105.0000	.1150	.0930	.1010		
110.0000				.0360	
120.0000	.0700	.0580	.0750	.0670	
135.0000	.0010	-.0080	.0080		
150.0000	-.0190	-.0090	.0200		
165.0000	.1110	.1220	.0630		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.170

X/LB	.0000	.0075	.0186	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7490	1.1020	.4940	.0650	.0140	.0110			.0070	
20.0000			.5200	.0750	.0130	.0060			.0040	
40.0000			.6060	.0750	.0390	.0110			.0040	
55.0000			.6240	.0910	.0840	.0590			.0600	
70.0000			.6120	.1180	.0810	.0760			.0720	
90.0000		1.2050	.5910	.1530	.0880	.0950			.0630	
120.0000			.5760	.1920	.1460	.1460			.1730	.0880
142.0000			.5720	.2220	.2020	.2250			.6610	
150.0000								.8980		
157.0000									.8290	
162.0000									.8570	
169.0000							.9650			
172.0000									1.1260	
180.0000	1.7490	1.1900	.5180	.2220	.2270	.2580				

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBGB14) (16 MAY 73)

REFERENCE DATA

SRL = 2.4210 SQ.FT. XMRP = 32.3030 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.170

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0070	.0120	.0090	.0000	.0000	-.0030				
20.0000	.0030									
40.0000	-.0040	-.0080	-.0050	-.0150	-.0020	-.0010	-.0010		-.0060	-.0110
55.0000	.0480									
70.0000	.0770	.0180	-.0150	-.0130	- 0020		-.0230	-.0380	.0120	.0580
90.0000	.0840	.0030	-.0160	-.0310	-.0130		-.0160	-.0300	-.0050	.0660
105.0000									.0380	.0330
120.0000	.0820	-.0130	-.0310	-.0340	-.0340		-.0140	-.0140	.1270	.1170
135.0000									.2340	.2760
150.0000	.0280	-.0140	-.0330	-.0380	-.0290		-.0210	-.0160	.0750	.1770
165.0000	.0040	-.0260	-.0340	-.0360	-.0270		-.0200		.0630	.1420
180.0000	-.0200	-.0190	-.0310	-.0290	-.0250		-.0230	-.0210	-.0100	

MACH (2) = 3.503 BETA (3) = -.170

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0370		-.0410
40.0000	-.0350	-.0540			-.0290
70.0000	.0410	.1070	.0080		
90.0000	.0530	.0530	.1400		
105.0000	.0550	.0530	.0680		
110.0000				.0340	
120.0000	.0200	-.0090	.0320	.0440	
135.0000	-.0110	-.0250	-.0020		
150.0000	-.0060	-.0010	-.0030		
165.0000	.1030	.0870	.0370		

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AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBGB14) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.180

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7360	1.0920	.4860	.0620	.0260	.0080			.0020	
20.0000			.4960	.0660	.0270	.0040			.0010	
40.0000			.5510	.0660	.0270	.0070			.0050	
55.0000			.5500	.0720	.0500	.0320			.0320	
70.0000			.5220	.0780	.0440	.0460			.0490	
90.0000		1.1010	.4960	.1040	.0490	.0590			.0240	
120.0000			.5000	.1340	.1080	.1060			.0940	
142.0000										.0480
150.0000			.5210	.1900	.1750	.2030			.5690	
157.0000								.8380		
162.0000									.8030	
169.0000									.8540	
172.0000							.9010			
180.0000	1.7360	1.1850	.5100	.2300	.2210	.2520			1.1140	

MACH (2) = 3.503 BETA (4) = 3.180

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0000	.0050	.0040	-.0040	-.0020	-.0040				
20.0000	.0020									
40.0000	-.0100	-.0050	-.0040	-.0120	-.0050	-.0030	-.0030		-.0040	-.0070
55.0000	.0150									
70.0000	.0460	-.0100	-.0370	-.0300	-.0210		-.0350	-.0490	-.0490	-.0120
90.0000	.0350	-.0260	-.0380	-.0480	-.0330		-.0250	-.0340	-.0170	-.0070
105.0000									.0120	-.0070
120.0000	.0380	-.0380	-.0510	-.0550	-.0500		-.0230	-.0220	.0480	.0560
135.0000									.3800	.2670
150.0000	.0050	-.0380	-.0500	-.0510	-.0390		-.0310	-.0260	.0910	.2960
165.0000	-.0220	-.0430	-.0440	-.0400	-.0330		-.0380		-.0120	.1580
180.0000	-.0250	-.0340	-.0400	-.0320	-.0310		-.0330	-.0310	-.0030	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0B14) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.180

X/LB	.6848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0310		-.0390
40.0000	-.0190	-.0380			-.0350
70.0000	.0750	.1680	.0510		
90.0000	.0060	.0980	.1060		
105.0000	.0050	.0150	.0690		
110.0000				.0240	
120.0000	-.0340	-.0360	-.0090	.0000	
135.0000	-.0360	-.0180	-.0120		
150.0000	.0270	.0100	.0160		
165.0000	.1290	.0550	.0320		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (5) = 6.520

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6830	1.0600	.4700	.0590	.0080	.0080			-.0020	
20.0000			.4600	.0550	.0090	.0030			-.0020	
40.0000			.4900	.0610	.0080	-.0010			.0000	
55.0000			.4750	.0620	.0220	.0110			.0090	
70.0000			.4350	.0650	.0130	.0210			.0240	
90.0000		.9900	.4100	.0620	.0190	.0300			-.0030	
120.0000			.4230	.1030	.0750	.0690			.0360	
142.0000										.0200
150.0000			.4650	.1650	.1500	.1740			.4720	
157.0000								.7430		
162.0000									.7780	
169.0000									.8390	
172.0000							.8110			
180.0000	1.6030	1.1550	.4970	.2090	.2170	.2380			1.0940	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0B14) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (5) = 6.520

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	-.0010	.0060	.0060	.0000	-.0050	-.0090				
20.0000	.0000									
40.0000	-.0090	-.0060	-.0050	-.0120	-.0080	-.0040	-.0040		-.0030	-.0050
55.0000	.0020									
70.0000	.0170	-.0270	-.0480	-.0430	-.0300		-.0390	-.0520	-.0470	-.0290
90.0000	.0000	-.0440	-.0510	-.0600	-.0460		-.0290	-.0360	-.0280	-.0200
105.0000									.0000	-.0340
120.0000	.0050	-.0550	-.0690	-.0680	-.0600		-.0350	-.0320	.1030	.0370
135.0000									.3450	.2540
150.0000	-.0090	-.0520	-.0610	-.0610	-.0430		-.0490	-.0550	.0070	.0920
165.0000	-.0370	-.0500	-.0490	-.0520	-.0570		-.0610		-.0110	.0620
180.0000	-.0160	-.0270	-.0430	-.0420	-.0573		-.0680	-.0560	-.0370	

MACH (2) = 3.503 BETA (5) = 6.520

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0440		-.0320
40.0000	-.0160	-.0460			-.0450
70.0000	.0350	.1580	.0940		
90.0000	-.0150	.0640	.1720		
105.0000	-.0150	-.0200	.0040		
110.0000				-.0330	
120.0000	-.0550	-.0460	-.0260	-.0320	
135.0000	-.0550	-.0410	-.0270		
150.0000	.0160	.0070	-.0280		
165.0000	.0170	-.0130	-.0300		

AMES 87-707 OA12 OEA ORBITER FUSELAGE (RBQB15) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6620	1.3540	.7340	.1520	.1200	.1270			.1270	
20.0000			.8130	.2200	.1360	.1330			.1370	
40.0000			.9120	.3110	.2300	.1720			.1690	
55.0000			.9070	.3140	.2500	.1860			.1830	
70.0000			.8510	.3140	.1810	.1810			.1850	
90.0000		1.3350	.7300	.2180	.1650	.1740			.2080	
120.0000			.5380	.1570	.1400	.2020			.2750	
142.0000										.0620
150.0000			.4150	.0990	.1040	.1790			.5780	
157.0000								.6950		
162.0000									.5700	
168.0000									.4960	
172.0000							.6330			
180.0000	1.6620	.8770	.2710	.0720	.0770	.1190			.6490	

MACH (1) = 2.498 BETA (1) = -6.520

X/LB	.2299	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1300	.1290	.1220	.1160	.1040	.1070				
20.0000	.1330									
40.0000	.1650	.1480	.1520	.1390	.1560	.1520	.1420		.1340	.1160
55.0000	.1860									
70.0000	.1890	.0750	.0400	.0250	.0230		-.0390	-.0680	-.0460	.0100
90.0000	.1920	.0520	-.0070	-.0140	-.0110		-.0370	-.0600	-.0470	.0720
105.0000									.0200	.1030
120.0000	.0940	-.0240	-.0520	-.0730	-.0890		-.1070	-.1110	.4290	.2800
139.0000									.0540	.0910
150.0000	-.0320	-.0690	-.0730	-.0680	-.0650		-.0810	-.0850	-.0210	-.0450
165.0000	-.0760	-.0530	-.0550	-.0540	-.0580		-.0660		-.0230	.0350
180.0000	-.1320	-.1340	-.1350	-.1380	-.1180		-.0920	-.0680	-.0570	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0815) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0520		-.1190
40.0000	.0820	.0110			-.0860
70.0000	.0660	.2650	.0450		
90.0000	.1390	.0860	.2600		
105.0000	.1430	.1000	.0750		
110.0000				.1080	
120.0000	.0800	.0220	.0120	.0200	
135.0000	-.1080	-.1250	-.0990		
150.0000	-.1320	-.1420	-.0990		
165.0000	.0050	.0050	-.0350		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6800	1.3660	.7620	.1510	.1140	.1270			.1230	
20.0000			.7950	.2030	.1250	.1290			.1290	
40.0000			.8530	.2680	.1860	.1520			.1490	
55.0000			.8280	.2660	.1920	.1270			.1240	
70.0000			.7560	.2660	.1180	.1280			.1450	
90.0000		1.2540	.6380	.1530	.1100	.1420			.1550	
120.0000			.4760	.1100	.0960	.1560			.1780	
142.0000										.0220
150.0000			.3760	.0750	.0840	.1480			.5220	
157.0000								.6580		
162.0000									.5240	
169.0000									.4850	
172.0000							.6110			
180.0000	1.6800	.8870	.2660	.0660	.0750	.1200			.6630	

AMES 07-707 OA12 02A ORBITER FUSELAGE (RB0B15) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.9000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (2) = -3.340

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1250	.1270	.1230	.1090	.1030	.1060				
20.0000	.1260									
40.0000	.1320	.1170	.1300	.1200	.1350	.1420	.1290		.1320	.1160
55.0000	.1310									
70.0000	.1280	.0360	-.0010	-.0140	-.0160		-.0710	-.1010	-.0870	-.0600
90.0000	.1450	.0130	-.0400	-.0420	-.0460		-.0690	-.0910	-.0800	.0200
105.0000									-.0020	.0520
120.0000	.0640	-.0500	-.0740	-.0910	-.0950		-.1110	-.1140	.3240	.2250
135.0000									.1250	.1220
150.0000	-.0690	-.0760	-.0910	-.0840	-.0760		-.0660	-.0690	.0280	.0190
165.0000	-.0980	-.0890	-.0780	-.0750	-.0660		-.0560		.0220	.0690
180.0000	-.1390	-.1270	-.1050	-.0990	-.0840		-.0480	-.0440	-.0345	

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0400		-.1210
40.0000	.0700	-.0030			-.0890
70.0000	.0120	.1130	-.0120		
90.0000	.0630	.0220	.1920		
105.0000	.0620	.0390	.0270		
110.0000				-.0470	
120.0000	-.0020	-.0350	-.0260	-.0140	
135.0000	-.0870	-.1200	-.0760		
150.0000	-.1100	-.1020	-.0350		
165.0000	-.0010	-.0050	-.0470		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (R80B15) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.170

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6790	1.3670	.7660	.1530	.1150	.1290			.1220	
20.0000			.7660	.1920	.1170	.1250			.1250	
40.000			.7890	.2280	.1520	.1280			.1270	
55.0000			.7430	.2260	.1380	.0690			.0820	
70.0000			.6570	.1480	.0650	.0850			.0990	
90.0000		1.1670	.5450	.0970	.0550	.1050			.1030	
125.0000			.4040	.0720	.0540	.1070			.0950	
142.0000										-.0230
150.0000			.3380	.0540	.0620	.1140			.4640	
157.0000								.6480		
162.0000									.4820	
169.0000									.4850	
172.0000							.7410			
180.0000	1.6790	.8920	.2670	.0640	.0740	.1290			.6650	

MACH (1) = 2.498 BETA (3) = -.170

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1220	.1250	.1200	.1050	.1040	.1070				
20.0000	.1200									
40.0000	.1010	.0830	.1030	.0980	.1180	.1230	.1150		.1210	.1140
55.0000	.0790									
70.0000	.0790	.0000	-.0310	-.0440	-.0320		-.1040	-.1330	-.1290	-.0980
90.0000	.0900	-.0190	-.0580	-.0620	-.0770		-.0930	-.1090	-.0830	-.0260
105.0000									-.0010	.0020
120.0000	.0330	-.0750	-.0950	-.0970	-.1020		-.0750	-.0590	.1410	.1600
135.0000									.1020	.1450
150.0000	-.0890	-.0970	-.1120	-.0920	-.0650		-.0590	-.0560	.0640	.0740
165.0000	-.1150	-.1180	-.1020	-.0810	-.0530		-.0430		.0370	.1390
180.0000	-.1420	-.1250	-.1100	-.0730	-.0500		-.0360	-.0320	-.0280	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB13) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.170

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0500		-.1180
40.0000	.0790	-.0050			-.0840
70.0000	-.0240	.0630	-.0520		
90.0000	-.0150	.0040	.1470		
105.0000	-.0130	-.0220	.0150		
110.0000				-.0310	
120.0000	-.0180	-.0550	-.0550	-.0270	
135.0000	-.1020	-.0740	-.0300		
150.0000	-.0100	-.0150	-.0050		
165.0000	.0700	.0240	-.0340		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.020

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6710	1.3620	.7390	.1500	.1140	.1260			.1210	
20.0000			.7340	.1730	.1070	.1200			.1160	
40.0000			.7260	.1880	.1070	.1040			.0920	
55.0000			.6610	.1880	.0850	.0190			.0330	
70.0000			.5640	.0880	.0150	.0440			.0510	
90.0000		1.0790	.4570	.0410	.0090	.0610			.0380	
120.0000			.3400	.0300	.0180	.0560			.1630	
142.0000										-.0560
150.0000			.2990	.0300	.0430	.0990			.3930	
157.0000								.6380		
162.0000									.4630	
169.0000									.4840	
172.0000							.6520			
180.0000	1.6710	.8920	.2620	.0620	.0710	.1150			.6590	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C (RB0B15) (16 MAY 73)

AMES 87-707 OA12 02A ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENCENT VARIABLE CP

MACH (1) = 2.499 BETA (4) = 3.020

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1220	.1270	.1220	.1070	.1000	.1040				
20.0000	.1120								.1170	.1120
40.0000	.0580	.0430	.0630	.0710	.0990	.1130	.1090			
55.0000	.0270							-.1410	-.1460	-.1240
70.0000	.0410	-.0200	-.0490	-.0660	-.0800		-.1220	-.1000	-.0590	-.0820
90.0000	.0580	-.0410	-.0760	-.0800	-.0960		-.0940		-.0240	-.0470
105.0000								-.0650	.0520	.0870
120.0000	.0080	-.0920	-.1100	-.1010	-.0860		-.0630		.1650	.1550
135.0000								-.0450	.0970	.1640
150.0000	-.1010	-.1280	-.1230	-.0820	-.0510		-.0460		.0500	.1870
165.0000	-.1350	-.1390	-.1160	-.0750	-.0520		-.0420	-.0460	-.0410	
180.0000	-.1430	-.1290	-.1100	-.1060	-.0880		-.0540			

MACH (1) = 2.498 BETA (4) = 3.020

X/LB	.8848	.9252	.9639	1.0015	1.0392
PHI					
.0000			.0570		-.1230
40.0000	.0920	.0090			-.0920
70.0000	.0120	.0710	.0260		
90.0000	-.0780	.0610	.0900		
105.0000	-.0790	-.0470	.0410		
110.0000				-.0360	
120.0000	-.0530	-.0790	-.0560	-.0060	
135.0000	-.0520	-.0460	-.0240		
150.0000	-.0240	-.0020	-.0040		
165.0000	.1010	.0570	-.0360		

AMES 87-707 OA12 02A ORBITER FUSELAGE (SBQB15) (16 MAY 73)

REFERENCE DATA

SREF = 2.4215 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6630	1.3470	.7270	.1480	.0970	.1220			.1190	
20.0000			.6960	.1560	.0960	.1130			.1130	
40.0000			.6580	.1560	.0970	.0760			.0630	
55.0000			.5840	.1540	.0390	-.0240			-.0110	
70.0000			.4820	.0400	-.0240	.0010			.0130	
90.0000		.9890	.3790	.0000	-.0300	.0170			.0140	
120.0000			.2840	.0010	-.0140	.0220			.0700	
142.0000										-.0860
150.0000			.2690	.0150	.0230	.0580			.3200	
157.0000								.4730		
162.0000									.4550	
168.0000									.4770	
172.0000							.5510			
180.0000	1.6630	.8900	.2620	.0360	.0700	.0880			.6350	

MACH (1) = 2.498 BETA (5) = 6.200

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1200	.1260	.1200	.1120	.1030	.1010				
20.0000	.1050									
40.0000	.0150	-.0100	.0100	.0330	.0850	.0980	.0990		.1060	.1080
55.0000	-.0170									
70.0000	.0250	-.0370	-.0670	-.0830	-.1010		-.1320	-.1500	-.1460	-.1320
90.0000	.0400	-.0630	-.0890	-.0910	-.1040		-.0930	-.1090	-.0880	-.1020
105.0000									-.0410	-.0550
120.0000	-.0170	-.1120	-.1150	-.1190	-.0730		-.0690	-.0740	.0320	.0490
135.0000									.2960	.1980
150.0000	-.1200	-.1470	-.1280	-.0860	-.0570		-.0530	-.0590	.0700	.1770
165.0000	-.1520	-.1520	-.1280	-.0900	-.0690		-.0570		.0350	.1720
180.0000	-.1390	-.1430	-.1470	-.1470	-.1230		-.1000	-.0780	-.0710	

AMES 67-707 OA12 OPA ORBITER FUSELAGE (RB0B15) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0340		-.1250
40.0000	.0780	-.0040			-.1010
70.0000	-.0210	-.0470	.1190		
90.0000	-.0820	.0400	-.0180		
105.0000	-.0820	-.0410	-.0160		
110.0000				-.0450	
120.0000	-.0870	-.1030	-.0610	-.0430	
135.0000	-.0700	-.0700	-.0540		
150.0000	-.0700	-.0800	-.0240		
165.0000	.0050	-.0130	-.0280		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (1) = -6.750

X/LP	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6620	1.3400	.7460	.1790	.1130	.0980			.0900	
20.0000			.7960	.2290	.1300	.1040			.1010	
40.0000			.9030	.2300	.2070	.1430			.1380	
55.0000			.9000	.2680	.2290	.1500			.1430	
70.0000			.8400	.2910	.1710	.1420			.1440	
90.0000		1.3300	.7180	.2310	.1540	.1320			.1610	
120.0000			.5220	.2020	.1320	.1470			.1570	
142.0000										.0770
150.0000			.4010	.1210	.1000	.1340			.4630	
157.4000								.5650		
162.0000									.5030	
169.0000									.4700	
172.0000							.5300			
180.0000	1.6620	.8650	.2820	.0900	.0770	.0900			.5930	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB15) (15 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (1) = -6.750

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0910	.0960	.0930	.0920	.0900	.0880				
20.0000	.0970									
40.0000	.1370	.1220	.1250	.1090	.1330	.1360	.1250		.1060	.0990
55.0000	.1490									
70.0000	.1520	.0720	.0400	.0250	.0230		-.0140	-.0460	-.0380	-.0230
90.0000	.1520	.0620	.0190	.0030	-.0050		-.0140	-.0330	-.0320	.0100
105.0000									-.0050	.0550
120.0000	.0960	-.0050	-.0190	-.0320	-.0510		-.0570	-.0630	.3690	.2310
135.0000									.0440	.0820
150.0000	-.0070	-.0310	-.0400	-.0400	-.0430		-.0570	-.0660	-.0360	-.0390
165.0000	-.0260	-.0250	-.0330	-.0300	-.0400		-.0520		-.0430	-.0010
180.0000	-.0390	-.0460	-.0810	-.0770	-.0800		-.0740	-.0660	-.0560	

MACH (2) = 3.503 BETA (1) = -6.750

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0010		-.0710
40.0000	.0420	-.0100			-.0570
70.0000	.1000	.1260	.0720		
90.0000	.0900	.1210	.2200		
105.0000	.1010	.0940	.1220		
110.0000				-.0300	
120.0000	.0510	.0060	.0270	.0240	
135.0000	-.0500	-.0890	-.0620		
150.0000	-.1060	-.1030	-.0620		
165.0000	-.0470	-.0360	-.0340		

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0B15) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (2) = -3.460

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1906	.1581	.1732	.1958
PHI										
.0000	1.7090	1.3780	.7430	.1850	.1170	.1050			.0940	
20.0000			.7950	.2290	.1300	.1080			.1020	
40.0000			.8670	.2570	.1830	.1310			.1230	
55.0000			.8430	.2680	.1900	.1080			.0990	
70.0000			.7670	.2670	.1310	.1040			.1090	
90.0000		1.2740	.6480	.1830	.1170	.1010			.1200	
125.0000			.4800	.1450	.1070	.1200			.1100	
142.0000										.0460
150.0000			.3840	.1120	.0940	.1230			.4150	
157.0000								.5730		
162.0000									.4680	
169.0000									.4690	
172.5000							.5050			
180.0000	1.7090	.8930	.2910	.0980	.0870	.1010			.6260	

MACH (2) = 3.503 BETA (2) = -3.460

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0960	.1020	.0970	.0930	.0900	.0860				
20.0000	.0980									
40.0000	.1140	.1030	.1090	.1000	.1220	.1220	.1150		.0980	.0890
55.0000	.1040									
70.0000	.1080	.0380	.0120	.0000	-.0050		-.0340	-.0610	-.0480	-.0300
90.0000	.1070	.0310	-.0020	-.0170	-.0260		-.0360	-.0480	-.0480	-.0050
105.0000									-.0260	.0200
125.0000	.0560	-.0180	-.0310	-.0410	-.0580		-.0660	-.0710	.2480	.1640
135.0000									.0550	.0750
150.0000	-.0200	-.0350	-.0450	-.0500	-.0530		-.0560	-.0590	-.0150	-.0230
165.0000	-.0330	-.0440	-.0450	-.0440	-.0450		-.0520		-.0260	.0100
180.0000	-.0590	-.0650	-.0640	-.0650	-.0650		-.0500	-.0480	-.0360	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB15) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (2) = -3.460

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			-.0080		-.0590
40.0000	.0260	-.0240			-.0520
70.0000	-.0220	.0320	.0200		
90.0000	.0320	.0440	.1350		
105.0000	.0510	.0400	.0700		
110.0000				-.0280	
120.0000	.0060	-.0300	.0070	-.0160	
135.0000	-.0460	-.1060	-.0440		
150.0000	-.1090	-.1150	-.0450		
165.0000	-.0570	-.0540	-.0300		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.160

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7250	1.3910	.7690	.1860	.1160	.1020			.0920	
20.0000			.7730	.2130	.1170	.1000			.0980	
40.0000			.8060	.2140	.1460	.1090			.1000	
55.0000			.7600	.2230	.1430	.0590			.0530	
70.0000			.6700	.2230	.0850	.0610			.0710	
90.0000		1.1880	.5590	.1319	.0720	.0700			.0780	
120.0000			.4140	.1060	.0730	.0880			.0590	
142.0000										.0120
150.0000			.3510	.0890	.0770	.0980			.3560	
157.0000								.5520		
162.0000									.4400	
169.0000									.4660	
172.0000							.5510			
180.0000	1.7250	.9010	.2090	.0910	.0830	.1020			.6450	

AMES 07-707 OA12 C2A ORBITER FUSELAGE (RBQB15) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0920	.0990	.0970	.0850	.0840	.0850				
20.0000	.0920									
40.0000	.0820	.0670	.0810	.0800	.0960	.1050	.1040		.0900	.0840
55.0000	.0600									
70.0000	.0620	.0080	-.0150	-.0270	-.0340		-.0570	-.0760	-.0750	-.0690
90.0000	.0610	-.0020	-.0250	-.0380	-.0470		-.0570	-.0650	-.0660	-.0330
105.0000									-.0270	-.0150
120.0000	.0240	-.0320	-.0490	-.0560	-.0650		-.0640	-.0620	.1100	.1130
135.0000									.0490	.0820
150.0000	-.0340	-.0470	-.0610	-.0600	-.0490		-.0520	-.0520	.0110	.0220
165.0000	-.0460	-.0620	-.0620	-.0570	-.0420		-.0430		-.0120	.0480
180.0000	-.0680	-.0660	-.0650	-.0510	-.0450		-.0380	-.0390	-.0310	

MACH (2) = 3.503 BETA (3) = -.160

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0060		-.0530
40.0000	.0390	-.0160			-.0510
70.0000	-.0290	.0000	-.0080		
90.0000	-.0300	-.0090	.1020		
105.0000	-.0120	-.0160	.0250		
110.0000				-.0150	
120.0000	-.0380	-.0500	-.0220	-.0270	
135.0000	-.0350	-.0790	-.0280		
150.0000	-.0680	-.0590	-.0170		
165.0000	-.3070	-.0180	-.0180		

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0B15) (16 MAY 73)

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0370 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.130

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.7190	1.3860	.7490	.1860	.1170	.1020			.0960	
20.0000			.7420	.2030	.1170	.0990			.0960	
40.0000			.7380	.2000	.1220	.0910			.0810	
55.0000			.6790	.2010	.1000	.0250			.0290	
70.0000			.5770	.1270	.0490	.0350			.0460	
90.0000		1.0880	.4690	.0860	.0400	.0470			.0470	
120.0000			.3530	.0730	.0460	.0600			.0270	
142.0000										-.0080
150.0000			.3170	.0740	.0620	.0820			.3000	
157.0000								.5220		
162.0000									.4410	
169.0000									.4700	
172.0000							.4080			
180.0000	1.7190	.9000	.2880	.0900	.0830	.0970			.6260	

MACH (2) = 3.503 BETA (4) = 3.130

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.0940	.1030	.0990	.0900	.0870	.0840				
20.0000	.0930									
40.0000	.0540	.0390	.0490	.0600	.0790	.0910	.0950		.0920	.0860
55.0000	.0280									
70.0000	.0330	-.0090	-.0290	-.0410	-.0480		-.0680	-.0850	-.0800	-.0750
90.0000	.0320	-.0180	-.0400	-.0450	-.0550		-.0660	-.0740	-.0540	-.0410
103.0000									-.0210	-.0280
120.0000	.0040	-.0440	-.0580	-.0560	-.0600		-.0550	-.0570	.0270	.0650
135.0000									.0670	.0830
150.0000	-.0420	-.0590	-.0700	-.0560	-.0410		-.0420	-.0430	.0230	.0940
165.0000	-.0610	-.0700	-.0670	-.0540	-.0420		-.0410		-.0070	.0780
180.0000	-.0660	-.0650	-.0670	-.0660	-.0640		-.0500	-.0450	-.0390	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB15) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.130

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0140		-.0770
40.0000	.0490	.0110			-.0580
70.0000	-.0800	.0050	-.0090		
90.0000	-.0570	-.0430	.0500		
105.0000	-.0550	-.0410	-.0080		
110.0000				-.0400	
120.0000	-.0540	-.0610	-.0310	-.0390	
135.0000	-.0550	-.0650	-.0270		
150.0000	-.0550	-.0490	-.0180		
165.0000	.0120	-.0020	-.0110		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (5) = 6.430

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6620	1.3400	.7250	.1750	.1050	.0950			.0880	
20.0000			.6900	.1820	.1060	.0860			.0850	
40.0000			.6590	.1800	.0910	.0650			.0540	
55.0000			.5880	.1800	.0620	-.0110			-.0020	
70.0000			.4850	.0830	.0130	.0060			.0140	
90.0000		.9710	.3840	.0460	.0060	.0200			.0130	
120.0000			.2940	.0400	.0180	.0260			.0040	
142.0000										-.0330
150.000			.2750	.0490	.0440	.0550			.2360	
157.0000								.4700		
162.0000									.4310	
169.0000									.4380	
172.0000							.4690			
180.0000	1.6620	.8710	.2770	.0490	.0740	.0790			.5840	

AMES 87-75? OA12 OF ORBITER FUSELAGE (PSOB15) (16 MAY 13)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 33.845? INCHES YMRP = .0000 INCHES

BREF = 39.849? INCHES ZMRP = .0000 INCHES
SCALE = .3 4? SCALE

PARAMETRIC DATA

ALPHA = 10.0?? RUDDER = .??0

ELEVON = -40.00? RUDFLP = 4?.???

SECTION (1.ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (5) = 6.430

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6526	.7385	.7869	.8283
PHI										
.0000	.0860	.0930	.0920	.0910	.0890	.0870				
20.0000	.0870									
40.0000	.0220	-.0010	.0070	.0210	.0540	.0690	.0750		.0740	.0720
55.0000	-.0130									
70.0000	.0000	-.0300	-.0440	-.0580	-.0700		-.0760	-.0950	-.0890	-.0820
90.0000	.0150	-.0330	-.0540	-.0610	-.0690		-.0730	-.0770	-.0670	-.0680
105.0000									-.0440	-.0430
120.0000	-.0070	-.0590	-.0680	-.0680	-.0610		-.0600	-.0620	.0090	.0090
135.0000									.1540	.1090
150.0000	-.0920	-.0750	-.0810	-.0680	-.0510		-.0560	-.0590	-.0030	.0770
165.0000	-.0760	-.0650	-.0800	-.0680	-.0610		-.0590		-.0220	.0480
180.0000	-.0630	-.0730	-.0860	-.0840	-.0850		-.0760	-.0700	-.0570	

MACH (2) = 3.503 BETA (5) = 6.430

X/LB	.0848	.9262	.9639	1.0019	1.0392
PHI					
.0000			.0320		-.0860
40.0000	.0670	.0160			-.0670
70.0000	-.0480	-.0180	-.0050		
90.0000	-.0620	-.0300	-.0080		
105.0000	-.0810	-.0540	-.0400		
110.0000				-.0430	
120.0000	-.0600	-.0530	-.0510	-.0470	
135.0000	-.0580	-.0550	-.0410		
150.0000	-.0570	-.0540	-.0410		
165.0000	-.0140	-.0360	-.0420		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB16) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5310	1.5710	1.0270	.3560	.3340	.3320			.3260	
20.0000			1.0930	.4500	.3560	.3490			.3490	
40.0000			1.1100	.5210	.4240	.3780			.3730	
55.0000			1.0230	.5210	.3510	.1700			.1600	
70.0000			.8720	.3800	.1800	.1710			.1670	
90.0000		1.2280	.6500	.1780	.1390	.1290			.1240	
120.0000			.3490	.0490	.0430	.0520			.2110	
142.0000										.0080
150.0000			.2030	-.0250	-.0210	.0520			.3380	
157.0000								.4400		
162.0000									.3610	
169.0000									.2930	
172.0000							.3990			
180.0000	1.5310	.6030	.0880	-.0570	-.0420	.0280			.4160	

MACH (1) = 2.498 BETA (1) = -6.490

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3330	.3310	.3250	.3100	.2950	.2960				
20.0000	.3450									
40.0000	.3280	.2790	.3180	.3340	.3700	.3680	.3470		.3620	.3430
55.0000	.1770									
70.0000	.1630	.0560	.0330	.0220	-.0040		-.1220	-.1700	-.1690	-.1360
90.0000	.1460	.0340	-.0120	-.0250	-.0290		-.0450	-.0930	-.1220	-.1060
105.0000									-.0390	.0410
120.0000	.0700	-.1180	-.1350	-.1390	-.1530		-.1420	-.1320	.4430	.1750
135.0000									.0080	-.0290
150.0000	-.0880	-.1230	-.1160	-.1490	-.1530		-.1330	-.1130	-.0110	-.0060
165.0000	-.1190	-.0770	-.0920	-.1240	-.1620		-.1270		-.0670	.0130
180.0000	-.1670	-.1570	-.1740	-.1340	-.0920		-.1150	-.1130	-.1040	

AMES 67-707 OA12 OBA ORBITER FUSELAGE (RB0816) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.2490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2300		-.1110
40.0000	.3050	.1750			-.1080
70.0000	-.1040	.0240	.1220		
90.0000	-.0860	-.0580	.0640		
105.0000	-.0860	-.0570	.0150		
115.0000				.0720	
120.0000	-.0330	-.0580	-.0740	.0090	
135.0000	-.1010	-.1290	-.1010		
150.0000	-.1150	-.1220	-.1260		
165.0000	-.0740	-.1260	-.1530		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.320

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5430	1.5740	1.0250	.3510	.3320	.3280			.3290	
20.0000			1.0610	.4270	.3410	.3360			.3370	
40.0000			1.0410	.4650	.3630	.3390			.3250	
55.0000			.9480	.4460	.2770	.0990			.0850	
70.0000			.7750	.2670	.1200	.1130			.1120	
90.0000		1.1520	.5650	.1190	.0860	.0790			.0820	
120.0000			.2980	.0110	.0120	.0550			.1540	
142.0000										-.0200
150.0000			.1750	-.0430	-.0290	.0530			.3120	
157.0000								.3670		
162.0000									.3350	
169.0000									.2920	
172.0000							.2350			
180.0000	1.5430	.6100	.0850	-.0620	-.0320	.0390			.4110	

AMES 87-707 CA12 OBA ORBITER FUSELAGE (RBQB16) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.320

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.9283
PHI										
.0000	.3310	.3310	.3240	.3000	.2850	.2990				
20.0000	.3340									
40.0000	.2660	.2160	.2470	.2890	.3320	.3470	.3280		.3410	.3330
55.0000	.0950									
70.0000	.1050	.0170	-.0070	-.0230	-.0720		-.1480	-.1800	-.1700	-.1480
90.0000	.1050	-.0020	-.0450	-.0570	-.0660		-.0920	-.1470	-.1710	-.1590
105.0000									-.0570	-.0350
120.0000	.0330	-.1230	-.1460	-.1530	-.1580		-.1270	-.1090	.3260	.1170
135.0000									.0440	.0060
150.0000	-.1020	-.1320	-.1320	-.1350	-.1580		-.1180	-.1010	.0050	.0220
165.0000	-.1260	-.0990	-.1040	-.1180	-.1170		-.1610		-.0840	.0150
180.0000	-.1670	-.1510	-.1340	-.1080	-.0720		-.0870	-.1000	-.1010	

MACH (1) = 2.498 BETA (2) = -3.320

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2240		-.1300
40.0000	.2870	.1580			-.1150
70.0000	-.1440	-.0580	.0340		
90.0000	-.1510	-.1210	-.0650		
105.0000	-.1300	-.1130	-.0720		
110.0000				-.1330	
120.0000	-.0930	-.1110	-.1040	-.0750	
135.0000	-.1480	-.1470	-.1230		
150.0000	-.1210	-.1440	-.1370		
165.0000	-.0900	-.1430	-.1640		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBOB16) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5460	1.5830	1.0300	.3540	.3290	.3300			.3280	
20.0000			1.0310	.4050	.3320	.3300			.3290	
40.0000			.9710	.4130	.3160	.2990			.2810	
55.0000			.8610	.3540	.2160	.0370			.0200	
75.0000			.6760	.2110	.0700	.0610			.0630	
90.0000		1.0700	.4750	.0650	.0380	.0400			.0560	
120.0000			.2440	-.0170	-.0150	.0480			.0700	-.0500
142.0000									.2690	
150.0000			.1490	-.0540	-.0110	.0490		.2480		
157.0000									.2610	
162.0000									.2490	
169.0000							.2010			
172.0000									.3840	
180.0000	1.3460	.6110	.0840	-.0620	-.0140	.0550				

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3290	.3330	.3240	.2920	.2850	.2980				
20.0000	.3230									
40.0000	.2050	.1550	.1890	.2410	.3000	.3180	.3060		.3210	.3155
55.0000	.0060									
75.0000	.0550	-.0170	-.0350	-.0550	-.1370		-.1640	-.1890	-.1840	-.1680
90.0000	.0720	-.0320	-.0710	-.0820	-.0980		-.1410	-.1890	-.1980	-.1930
105.0000									-.1000	-.1250
120.0000	.0050	-.1180	-.1440	-.1640	-.1480		-.1100	-.1110	.1920	.0830
135.0000									.0650	.0330
150.0000	-.1170	-.1340	-.1400	-.1360	-.1720		-.1280	-.1030	.0130	.0450
165.0000	-.1350	-.1170	-.1170	-.0990	-.0900		-.1290		-.0820	.0090
180.0000	-.1620	-.1440	-.1020	-.0800	-.0550		-.0640	-.0720	-.0710	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0B16) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

X/LB	.8848	.9262	9639	1.0015	1.0392
PHI					
.0000			.2350		-.1490
40.0000	.2800	.1530			-.1190
70.0000	-.1420	-.1070	-.0890		
90.0000	-.1680	-.1590	-.1180		
105.0000	-.1690	-.1650	-.1570		
110.0000				-.0990	
120.0000	-.1320	-.1370	-.1360	-.1100	
135.0000	-.1330	-.1330	-.1080		
150.0000	-.1120	-.1100	-.0990		
168.0000	-.0340	-.0600	-.1010		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5400	1.5720	1.0210	.3520	.3280	.3200			.3250	
25.0000			.9910	.3810	.3180	.3150			.3190	
40.0000			.8930	.3610	.2700	.2530			.2390	
55.0000			.7590	.2880	.1560	-.0170			-.0420	
70.0000			.5830	.1500	.0210	.0080			.0140	
90.0000		.9860	.3970	.0200	-.0060	.0000			.0170	
120.0000			.1970	-.0460	-.0410	.0030			.1080	
142.0000										-.0650
150.0000			.1270	-.0680	-.0320	.0240			.2330	
157.0000								.3250		
162.0000									.2500	
169.0000									.2590	
172.0000							.2380			
180.0000	1.5400	.6110	.0850	-.0660	-.0340	.0460			.3940	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 07-707 OA12 02A ORBITER FUSELAGE (RB03:6) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (4) = 3.040

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8383
PHI										
.0000	.3300	.3290	.3230	.2990	.2850	.2950				
20.0000	.3130									
40.0000	.1480	.0950	.1290	.1910	.2630	.2950	.2920		.3020	.3020
55.0000	-.0550									
70.0000	.0120	-.0470	-.0620	-.0850	-.1930		-.1790	-.1980	-.1830	-.1780
90.0000	.0500	-.0490	-.0900	-.1070	-.1160		-.1890	-.2180	-.2020	-.1930
105.0000									-.1660	-.1990
120.0000	-.0370	-.1250	-.1410	-.1630	-.1440		-.1250	-.1280	.0650	.0250
135.0000									.0680	.0000
150.0000	-.1240	-.1300	-.1410	-.1200	-.1300		-.1370	-.1220	-.0110	-.0660
165.0000	-.1530	-.1410	-.1180	-.0870	-.0830		-.1050		-.0770	.0700
180.0000	-.1690	-.1530	-.1330	-.1110	-.0790		-.0920	-.1080	-.1070	

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2360		-.1490
40.0000	.2750	.1470			-.1210
70.0000	-.1610	-.1370	-.1450		
90.0000	-.1840	-.1760	-.1660		
105.0000	-.1870	-.1940	-.1870		
110.0000				-.0580	
120.0000	-.1540	-.1400	-.1350	-.1290	
135.0000	-.1530	-.1450	-.1200		
150.0000	-.1520	-.0750	-.0810		
165.0000	.0730	.0510	-.0160		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB9B16) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1906	.1581	.1732	.1958
PHI										
.0000	1.5230	1.5530	1.0000	.3470	.3250	.3230			.3240	
20.0000			.9490	.3560	.3050	.3020			.3070	
40.0000			.8250	.3110	.2240	.2040			.1800	
55.0000			.6760	.2300	.1030	-.0600			-.0820	
70.0000			.4970	.1070	-.0220	-.0390			-.0310	
90.0000		.9040	.3250	-.0200	-.0410	-.0230			-.0160	
120.0000			.1550	-.0710	-.0380	-.0180			.0950	
142.0000										-.0020
150.0000			.1010	-.0840	-.0390	-.0160			.2080	
157.0000								.2590		
162.0000									.2960	
169.0000									.2870	
172.0000							.3320			
180.0000	1.5230	.6060	.0860	-.0670	-.0440	-.0080			.3830	

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7859	.8283
PHI										
.0000	.3290	.3300	.3250	.3050	.2970	.2910				
20.0000	.3060									
40.0000	.0980	.0380	.0670	.1320	.2390	.2730	.2870		.2860	.2850
55.0000	-.1010									
70.0000	-.0350	-.0740	-.0890	-.1370	-.2110		-.1840	-.2010	-.1630	-.1610
90.0000	.0180	-.0660	-.1010	-.1210	-.1460		-.2200	-.2150	-.2000	-.2020
105.0000									-.2000	-.1900
120.0000	-.0450	-.1220	-.1430	-.1580	-.1390		-.1370	-.1560	-.0600	-.1600
135.0000									.0080	-.0150
150.0000	-.1420	-.1390	-.1450	-.1030	-.0990		-.1350	-.1330	-.0250	-.0300
165.0000	-.1710	-.1590	-.1180	-.0850	-.0830		-.1050		-.0890	.0510
180.0000	-.1720	-.1670	-.1800	-.1420	-.0900		-.1130	-.1180	-.1030	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB16) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.0490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.400 BETA (5) = 6.240

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2320		-.1520
40.0000	.2630	.1420			-.1230
70.0000	-.1740	-.1580	-.1720		
80.0000	-.1930	-.1930	-.1850		
100.0000	-.1930	-.1910	-.1790		
110.0000				-.0580	
120.0000	-.1930	-.1910	-.1670	-.1290	
135.0000	-.1950	-.1400	-.1160		
150.0000	-.1300	-.0520	-.0290		
165.0000	.0120	-.0120	-.0530		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.903 BETA (1) = -6.720

X/LB	.0000	.0075	.0188	.0339	.0602	.1555	.1906	.1581	.1732	.1958
PHI										
.0000	1.9280	1.9620	1.0060	.3600	.2850	.2770			.2780	
20.0000			1.0790	.4380	.3110	.2950			.3020	
40.0000			1.1040	.5000	.3720	.3440			.3460	
55.0000			1.0150	.5010	.3190	.1990			.1400	
70.0000			.8670	.3710	.1780	.1480			.1440	
90.0000		1.2190	.6440	.2010	.1370	.1110			.1100	
120.0000			.3540	.1170	.0630	.0510			.1040	
142.0000										.0100
150.0000			.2180	.0230	.0170	.0440			.2260	
157.0000								.3210		
162.0000									.2690	
169.0000									.2480	
172.0000							.0920			
180.0000	1.9280	.3980	.1230	-.0060	-.0020	.0190			.3190	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB16) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (1) = -6.720

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2900	.3010	.2990	.2930	.2870	.2840				
20.0000	.3040									
40.0000	.3180	.2700	.2950	.3080	.3520	.3590	.3450		.3150	.3030
55.0000	.1540									
70.0000	.1410	.0700	.0380	.0280	.0170		-.0470	-.0840	-.0760	-.0740
90.0000	.1180	.0400	.0080	.0000	-.0040		-.0100	-.0340	-.0430	-.0360
105.0000									-.0070	.0720
120.0000	.0850	-.0470	-.0650	-.0690	-.0810		-.0720	-.0680	.4350	.2160
135.0000									.0270	.0190
150.0000	-.0330	-.0580	-.0690	-.0810	-.0870		-.0760	-.0700	-.0330	-.0360
165.0000	-.0810	-.0450	-.0590	-.0730	-.0870		-.0780		-.0500	-.0150
180.0000	-.0810	-.0830	-.0930	-.0810	-.0730		-.0800	-.0780	-.0670	

MACH (2) = 3.503 BETA (1) = -6.720

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1400		-.0610
40.0000	.2260	.1180			-.0540
70.0000	-.0780	.0120	.0400		
90.0000	-.0780	-.0390	.1320		
105.0000	.0140	-.0280	.0070		
110.0000				-.0570	
120.0000	-.0150	-.0550	-.0080	-.0090	
135.0000	-.1230	-.1230	-.0590		
150.0000	-.1370	-.1350	-.0590		
165.0000	-.0860	-.1070	-.0690		

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBQ816) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (2) = -3.440

X/LB	.0000	.0075	.0188	.0339	.0572	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5710	1.6050	1.0290	.3670	.2 0	.2790				
20.0000			1.0770	.4200	.35 0	.2880			.2820	
40.0000			1.0610	.4440	.3340	.3050			.2960	
55.0000			.9530	.4530	.2600	.1060			.3090	
70.0000			.7840	.2990	.1300	.1000			.0760	
90.0000		1.1690	.5730	.1520	.0960	.0710			.0960	
120.0000			.3180	.0900	.0380	.0430			.0710	
142.0000									.0690	
150.0000			.2060	.0130	.0080	.0360				-.0070
157.0000									.2100	
162.0000								.3030		
169.0000									.2610	
172.0000									.2510	
180.0000	1.5710	.6160	.1260	-.0030	-.0020	.0900	.0780		.3330	

MACH (2) = 3.503 BETA (2) = -3.440

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2950	.3030	.3060	.2910	.2780	.2720				
20.0000	.3020									
40.0000	.2700	.2190	.2460	.2740	.3160	.3310	.3250		.2920	.2850
55.0000	.0860									
70.0000	.0910	.0320	.0070	-.0070	-.0300		-.0630	-.0970	-.0800	-.0750
90.0000	.0800	.0100	-.0180	-.0250	-.0310		-.0430	-.0680	-.0720	-.0780
105.0000									-.0330	.0170
120.0000	.0350	-.0330	-.0770	-.0790	-.0910		-.0760	-.0650	.3590	.1930
135.0000									.0260	.0110
150.0000	-.0430	-.0670	-.0760	-.0880	-.0880		-.0810	-.0720	-.0280	-.0150
165.0000	-.0660	-.0590	-.0610	-.0710	-.0950		-.0900		-.0610	-.0070
180.0000	-.0430	-.0820	-.0840	-.0730	-.0610		-.0770	-.0810	-.0640	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0B16) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (2) = -3.440

X/LB	.8348	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1440		-.0680
40.0000	.2160	.1140			-.0610
70.0000	-.1060	-.0480	.0060		
90.0000	-.1070	-.0920	-.0290		
105.0000	-.0530	-.0840	-.0480		
110.0000				-.0690	
120.0000	-.0470	-.0800	-.0390	-.0690	
135.0000	-.0930	-.1220	-.0640		
150.0000	-.1230	-.1250	-.0660		
165.0000	-.0850	-.1080	-.0780		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.160

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5850	1.6160	1.0300	.3680	.2940	.2800			.2840	
20.0000			1.0470	.4100	.3000	.2790			.2880	
40.0000			.9910	.4120	.2930	.2650			.2620	
55.0000			.8640	.4130	.2070	.0570			.0210	
70.0000			.6890	.2350	.0870	.0570			.0510	
90.0000		1.0080	.4900	.1090	.0590	.0380			.0360	
120.0000			.2700	.0790	.0170	.0290			.0450	
142.0000										-.0200
150.0000			.1840	.0020	.0080	.0280			.1750	
157.0000								.0910		
162.0000									.2280	
169.0000									.2280	
172.0000							.0430			
180.0000	1.5850	.6230	.1300	-.0070	.0120	.0270			.3140	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB16) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.160

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2970	.3040	.3040	.2910	.2740	.2720				
20.0000	.2940									
40.0000	.2170	.1640	.1950	.2300	.2820	.3020	.3020		.2740	.2720
55.0000	.0270									
70.0000	.0470	.0010	-.0180	-.0320	-.0770		-.0730	-.1010	-.0840	-.0830
90.0000	.0500	-.0100	-.0340	-.0460	-.0540		-.0730	-.0980	-.0970	-.1010
105.0000									-.0620	-.0460
120.0000	.0310	-.0620	-.0830	-.0880	-.0880		-.0760	-.0670	.1810	.0950
135.0000									.0150	.0180
150.0000	-.0540	-.0710	-.0800	-.0860	-.0930		-.0820	-.0780	-.0410	.0020
165.0000	-.0680	-.0660	-.0710	-.0670	-.0760		-.1000		-.0620	-.0270
180.0000	-.0850	-.0780	-.0700	-.0540	-.0470		-.0620	-.0670	-.0640	

MACH (2) = 3.503 BETA (3) = -.160

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1490		-.0660
40.0000	.2100	.1100			-.0610
70.0000	-.1100	-.0790	-.0310		
90.0000	-.1320	-.1250	-.0720		
105.0000	-.1160	-.1120	-.0780		
110.0000				-.0680	
120.0000	-.0870	-.1040	-.0550	-.0670	
135.0000	-.0860	-.1220	-.0680		
150.0000	-.1150	-.1150	-.0630		
165.0000	-.0950	-.0940	-.0680		

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBQB16) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.150

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5720	1.6040	.9920	.3650	.2920	.2780			.2810	
20.0000			1.0030	.3880	.2840	.2690			.2770	
40.0000			.9110	.3890	.2500	.2270			.2140	
55.0000			.7710	.3260	.1570	.0210			-.0180	
70.0000			.5950	.2050	.0510	.0200			.0150	
90.0000		.9960	.4140	.0680	.0260	.0170			.0170	
120.0000			.2270	.0450	-.0010	.0210			.0230	
142.0000										-.0320
150.0000			.1610	-.0090	-.0040	.0180			.1220	
157.0000								.1120		
162.0000									.2240	
169.0000									.2370	
172.0000							.0560			
180.0000	1.5720	.6210	.1280	-.0050	-.0020	.0180			.3320	

MACH (2) = 3.503 BETA (4) = 3.150

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2940	.3040	.3040	.2900	.2790	.2710				
20.0000	.2850									
40.0000	.1610	.1150	.1420	.1820	.2470	.2760	.2810		.2610	.2560
55.0000	-.0180									
70.0000	.0060	-.0230	-.0390	-.0550	-.1070		-.0780	-.1080	-.0900	-.0870
90.0000	.0240	-.0350	-.0490	-.0600	-.0650		-.1070	-.1150	-.1080	-.1060
105.0000									-.1100	-.1100
120.0000	-.0090	-.0650	-.0860	-.0910	-.0890		-.0870	-.0910	.0950	.0110
135.0000									-.0200	-.0080
150.0000	-.0610	-.0710	-.0820	-.0810	-.0950		-.0870	-.0820	-.0450	-.0320
165.0000	-.0790	-.0790	-.0770	-.0610	-.0650		-.0830		-.0670	-.0240
180.0000	-.0880	-.0830	-.0860	-.0710	-.0800		-.0770	-.0850	-.0640	

DATE [illegible] SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB@B16) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.150

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1360		-.0560
40.0000	.1930	.0970			-.0670
70.0000	-.1270	-.1080	-.0640		
90.0000	-.1520	-.1490	-.0910		
105.0000	-.1540	-.1560	-.0980		
110.0000				-.0520	
120.0000	-.1070	-.1280	-.0840	-.0560	
135.0000	-.1060	-.1390	-.0800		
150.0000	-.1380	-.1320	-.0780		
165.0000	-.0860	-.0940	-.0540		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (5) = 6.470

X/LB	.0000	.0075	.0189	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5270	1.5330	.9720	.3550	.2810	.2740			.2770	
20.0000			.9380	.3560	.2640	.2570			.2630	
40.0000			.8170	.3510	.2060	.1840			.1710	
55.0000			.6710	.2430	.1110	-.0100			-.0420	
70.0000			.5020	.1460	.0200	-.0120			-.0170	
90.0000		.8850	.3330	.0310	.0020	.0010			.0020	
.20.0000			.1790	.0140	-.0190	.0040			.0050	-.0510
142.0000									.1390	
150.0000			.1320	-.0200	-.0210	.0030		.1810		
157.0000									.2310	
162.0000									.2190	
169.0000							.1560			
172.0000									.3080	
180.0000	1.5270	.9990	.1220	-.0140	-.0100	.0050				

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB16) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (5) = 6.470

X/LS	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2890	.2970	.2960	.2890	.2840	.2830				
20.0000	.2690									
40.0000	.1120	.0670	.0890	.1290	.2070	.2420	.2550		.2400	.2380
55.0000	-.0440									
70.0000	-.0230	-.0490	-.0640	-.0950	-.1120		-.0810	-.1090	-.0910	-.0870
90.0000	.0020	-.0470	-.0620	-.0770	-.0910		-.1130	-.1140	-.1070	-.1040
105.0000									-.1090	-.1060
120.0000	-.0280	-.0640	-.0840	-.0920	-.0900		-.0880	-.0980	-.0900	-.1070
135.0000									-.0220	-.0440
150.0000	-.0760	-.0840	-.0850	-.0810	-.0740		-.0880	-.0890	-.0610	-.0480
165.0000	-.0880	-.0870	-.0830	-.0630	-.0620		-.0820		-.0730	-.0540
180.0000	-.0860	-.0910	-.0960	-.0830	-.0760		-.0820	-.0810	-.0710	

MACH (2) = 3.503 BETA (5) = 6.470

X/LB	.0848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1650		-.0700
40.0000	.2110	.1150			-.0700
70.0000	-.0990	-.0690	- 0810		
90.0000	-.1230	-.1230	-.0980		
105.0000	-.1220	-.1240	-.1000		
110.0000				-.0610	
120.0000	-.1220	-.1220	-.0990	-.0660	
135.0000	-.1240	-.1210	-.1020		
150.0000	-.1230	-.1050	-.0620		
165.0000	-.0780	-.0730	-.0650		

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB17) (16 MAY 79)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 30.8490 INCHES YMRP = .0000 INCHES
BREF = 35.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.496 ALPHA (1) = 15.200

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6140	1.4690	.8340	.2400	.2040	.2170			.2110	
20.0000			.8920	.2870	.2090	.2170			.2190	
40.0000			.8780	.2850	.2310	.2080			.1990	
55.0000			.7960	.2990	.1790	.0550			.0550	
70.0000			.6780	.1660	.0690	.0690			.0740	
90.0000		1.1220	.5200	.0840	.0470	.0640			.0950	
120.0000			.3280	.0250	.0180	.0780			.1070	
142.0000										-.0230
150.0000			.2440	-.0040	.0060	.0610			.3580	
157.0000								.3990		
162.0000									.3890	
169.0000									.3770	
172.0000							.4070			
180.0000	1.6140	.7450	.1720	-.0090	.0130	.0590			.5270	

MACH (1) = 2.498 ALPHA (1) = 15.200

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2120	.2140	.2080	.1870	.1810	.1910				
20.0000	.2110									
40.0000	.1520	.1150	.1450	.1650	.1990	.2090	.2000		.2100	.2060
55.0000	.0620									
70.0000	.0800	-.0050	-.0290	-.0470	-.0730		-.1430	-.1720	-.1770	-.1760
90.0000	.0880	-.0160	-.0630	-.0800	-.0970		-.1060	-.1250	-.1340	-.1160
105.0000									-.0240	-.0420
120.0000	.0120	-.0830	-.1100	-.1290	-.1520		-.1060	-.0910	.1340	.1210
135.0000									.1030	.0460
150.0000	-.0290	-.1090	-.1270	-.1130	-.0940		-.1210	-.1160	.0050	-.0080
165.0000	-.1370	-.1160	-.1110	-.0900	-.0710		-.0690		-.0410	.0910
180.0000	-.1570	-.1400	-.1070	-.0800	-.0520		-.0430	-.0430	-.0370	

AMES 87-707 OA12 C2A ORBITER FUSELAGE (RB0817) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = 15.200

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1410		-.0760
40.0000	.1770	.1350			-.0890
70.0000	-.1690	-.1650	-.1760		
90.0000	-.1360	-.1210	-.1310		
105.0000	-.1370	-.1010	-.1300		
110.0000				-.0570	
120.0000	-.0790	-.1030	-.1160	-.0580	
135.0000	-.0750	-.1040	-.0930		
150.0000	-.0760	-.0700	-.0940		
165.0000	.0190	-.0020	-.0580		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (2) = 20.250

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5470	1.5730	1.0050	.3470	.3210	.3220			.3170	
25.0000			1.0240	.3990	.3230	.3230			.3220	
40.0000			.9680	.4080	.3130	.2920			.2820	
55.0000			.8450	.4090	.2150	.0330			.0200	
70.0000			.6820	.1800	.0680	.0570			.0600	
90.0000		1.0720	.4840	.0690	.0350	.0350			.0530	
120.0000			.2490	-.0180	-.0210	.0470			.0580	
142.0000										-.0440
150.0000			.1530	-.0560	-.0310	.0370			.2890	
157.0000								.3410		
162.0000									.2880	
169.0000									.2670	
172.0000							.2640			
180.0000	1.5470	.6100	.0850	-.0650	-.0200	.0490			.3760	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBOD:7) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (2) = 20.250

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3210	.3280	.3180	.2940	.2790	.2970				
30.0000	.3170									
40.0000	.2080	.1570	.1890	.2430	.3010	.3170	.3040		.3170	.3120
55.0000	.0100									
70.0000	.0570	-.0200	-.0380	-.0540	-.1250		-.1670	-.1920	-.1900	-.1880
90.0000	.0670	-.0360	-.0750	-.0840	-.0990		-.1410	-.1880	-.1980	-.1950
105.0000									-.0940	-.1120
120.0000	.0000	-.1210	-.1470	-.1660	-.1510		-.1130	-.1120	.2000	.0840
135.0000									.0660	.0370
150.0000	-.1220	-.1410	-.1450	-.1420	-.1710		-.1300	-.1080	.0030	.0370
165.0000	-.1530	-.1220	-.1220	-.1070	-.0930		-.1450		-.0810	-.0650
180.0000	-.1680	-.1510	-.1060	-.0850	-.0590		-.0690	-.0760	-.0750	

MACH (1) = 2.498 ALPHA (2) = 20.250

X/LB	.2848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2270		-.1080
40.0000	.2600	.2330			-.1075
70.0000	-.1870	-.1490	-.1810		
90.0000	-.2020	-.1810	-.1580		
105.0000	-.2010	-.1740	-.1630		
110.0000				-.0970	
120.0000	-.1390	-.1500	-.1430	-.1080	
135.0000	-.1370	-.1460	-.1270		
150.0000	-.1140	-.1140	-.1050		
165.0000	-.0470	-.0790	-.1160		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0917) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (3) = 25.180

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.4450	1.6480	1.1600	.4770	.4660	.4560			.4570	
20.0000			1.1530	.5200	.4660	.4550			4580	
40.0000			1.0520	.5140	.4180	.3980			.3790	
55.0000			.8830	.4210	.2590	.0390			-.0180	
70.0000			.6770	.1970	.0720	.0460			.0550	
90.0000		1.0030	.4430	.0560	.0340	.0220			.0240	
120.0000			.1790	-.0510	-.0460	.0070			.0170	
142.0000										-.0600
150.0000			.0770	-.0940	-.0520	-.0030			.2170	
157.0000								.2810		
162.0000									.1980	
169.0000									.1510	
172.0000							.1280			
180.0000	1.4450	.4840	.0180	-.0830	-.0520	.0240			.2450	

MACH (1) = 2.498 ALPHA (3) = 25.180

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.4630	.4610	.4520	.4190	.4090	.4230				
20.0000	.4570									
40.0000	.2840	.2160	.2610	.3420	.4240	.4420	.4320		.4530	.4500
55.0000	-.0150									
70.0000	.0510	-.0180	-.0410	-.0700	-.1990		-.1760	-.2080	-.1880	-.1830
90.0000	.0320	-.0590	-.0760	-.0800	-.0980		-.2030	-.2220	-.2160	-.2170
105.0000									-.1850	-.2110
120.0000	-.0230	-.1490	-.1770	-.1720	-.1540		-.1340	-.1410	-.0030	-.0880
135.0000									.0430	-.0040
150.0000	-.1260	-.1540	-.1600	-.1820	-.1680		-.1340	-.1320	-.0440	.0030
165.0000	-.1520	-.1210	-.1380	-.1320	-.1680		-.1750		-.0950	.0070
180.0000	-.1590	-.1460	-.1110	-.0910	-.0800		-.1240	-.1260	-.1100	

AMES 07-707 OA12 O2A ORBITER FUSELAGE (RB0B17) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (3) = 25.180

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.3630		-.1040
40.0000	.4090	.3610			-.1140
71.0000	-.1750	-.1650	-.1760		
90.0000	-.2080	-.2010	-.1890		
103.0000	-.2090	-.2110	-.1930		
110.0000				-.0820	
120.0000	-.1390	-.1560	-.1480	-.0990	
135.0000	-.1750	-.1620	-.1270		
150.0000	-.1340	-.1380	-.1260		
165.0000	-.0610	-.1070	-.1400		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (4) = 30.150

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3220	1.6940	1.2940	.6230	.6270	.6210			.6180	
20.0000			1.2720	.6690	.6250	.6180			.6200	
40.0000			1.1220	.6240	.5340	.5140			.4900	
55.0000			.9080	.4630	.3060	.0520			-.0330	
70.0000			.6600	.2130	.0770	.0260			.0290	
90.0000		.9160	.3970	.0430	.0320	.0190			.0150	
120.0000			.1140	-.0830	-.0660	-.0330			-.0270	
147.0000										-.0670
150.0000			.0130	-.0870	-.0710	-.0470			.1620	
157.0000								.2760		
162.0000									.1560	
169.0000									.0770	
172.0000							.0310			
180.0000	1.3220	.3640	-.0380	-.0800	-.0720	- 0140			.1390	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0B17) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (4) = 30.150

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6150	.6090	.5940	.5570	.5440	.5680				
20.0000	.6070									
40.0000	.3600	.2730	.3360	.4450	.5500	.3810	.5700		.6150	.6040
55.0000	-.0400									
70.0000	.0260	-.0290	-.0660	-.1090	-.2070		-.1650	-.1940	-.1710	-.1670
90.0000	.0240	-.0630	-.0680	-.0780	-.1180		-.2040	-.2030	-.1950	-.1940
105.0000									-.1980	-.1970
120.0000	-.0430	-.1660	-.1840	-.1790	-.1590		-.1420	-.1780	-.1870	-.1980
135.0000									-.0230	-.1580
150.0000	-.1330	-.1700	-.1870	-.1880	-.1630		-.1450	-.1470	-.0770	-.0460
165.0000	-.1570	-.1300	-.1610	-.1760	-.2000		-.1620		-.1110	-.0420
180.0000	-.1560	-.1430	-.1120	-.0960	-.1390		-.1340	-.1300	-.1180	

MACH (1) = 2.498 ALPHA (4) = 30.150

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5370		-.1220
40.0000	.5710	.5130			-.1140
70.0000	-.1570	-.1250	-.1740		
90.0000	-.1940	-.1920	-.1840		
105.0000	-.1950	-.1920	-.1810		
110.0000				-.1190	
120.0000	-.1910	-.1880	-.1820	-.1190	
135.0000	-.1910	-.1930	-.1790		
150.0000	-.1570	-.1670	-.1800		
165.0000	-.0920	-.1240	-.1560		

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0817) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (5) = 35.290

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.1600	1.7090	1.3730	.8040	.7920	.7860			.7830	
20.0000			1.1770	.6380	.6480	.7790			.7770	
40.0000			.9210	.7370	2.2490	.6250			.5830	
55.0000			2.2460	.5130	.3430	.0560			-.0440	
70.0000			.6320	.2240	.0700	.0040			.0050	
90.0000		.8170	.3480	.0340	.0270	.0170			.0220	
120.0000			.0550	-.1100	-.0950	-.0770			-.0680	
142.0000										-.1060
150.0000			-.0410	-.1110	-.0990	-.0400			.0250	
157.0000								2.2570		
162.0000									.1570	
169.0000									.0820	
172.0000							-.0270			
180.0000	1.1800	.2520	-.0690	.7940	-.1000	.0060			.1380	

MACH (1) = 2.498 ALPHA (5) = 35.290

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.7770	.7620	.4100	.6990	.6920	.7310				
20.0000	.4380									
40.0000	-.0530	.5500	-.0720	.5480	-.2130	.7300	.7210		.7860	.7760
55.0000	.0080									
70.0000	2.2640	-.0480	-.0680	-.1280	-.1320		-.1670	-.2010	-.1680	-.1660
90.0000	.0500	-.0560	2.2520	-.0970	-.1690		-.2130	-.2100	-.1980	-.1990
105.0000									-.2040	-.2030
120.0000	-.0840	-.1810	-.2000	-.1870	2.2530		-.1880	-.2100	-.2000	-.2020
135.0000									-.1110	-.2100
150.0000	-.1530	-.1950	-.2040	-.1920	-.1620		-.1570	-.1610	-.1360	-.0820
165.0000	-.1630	-.1510	-.1980	-.1930	-.1910		-.1710		-.1520	-.0910
180.0000	-.1680	-.1470	-.1200	-.1430	-.1670		-.1510	-.1380	-.1290	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB17) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3300 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (5) = 35.290

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.7200		-.1200
40.0000	.7360	.6750			-.1170
70.0000	-.1580	-.1300	-.1800		
90.0000	-.2000	-.1990	-.1880		
105.0000	-.2010	-.2030	-.1880		
110.0000				-.0850	
120.0000	-.2000	-.2000	-.1860	-.1080	
130.0000	-.2020	-.2010	-.1870		
150.0000	-.1920	-.1970	-.1890		
165.0000	-.1400	-.1370	-.1710		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (6) = 38.670

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1906	.1581	.1732	.1958
PHI										
.0000	1.0830	1.7040	1.4890	.9430	.9170	.8960			.8920	
20.0000			1.4410	.9610	.9090	.8960			.8840	
40.0000			1.2080	.8190	.7260	.6960			.6460	
55.0000			.9250	.5360	.3720	.0650			-.0380	
70.0000			.6150	.2300	.0680	-.0070			-.0020	
90.0000		.7490	.3130	.0220	.0230	.0110			.0120	
120.0000			.0170	-.1260	-.1100	-.0940			-.0780	
142.0000										-.1250
150.0000			-.0730	-.1260	-.1150	-.1070			-.0740	
157.0000								-.0970		
162.0000									.1220	
169.0000									.1520	
172.0000							.0720			
180.0000	1.0830	.1890	-.1150	-.1250	-.1160	-.0450			.1560	

AMES 87-707 OA12 OEA ORBITER FUSELAGE (RB0B17) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0350 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (6) = 38.670

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6910	.8670	.8360	.7940	.7990	.8470				
20.0000	.8710									
40.0000	.4770	.3660	.4620	.6170	.7780	.8320	.8270		.9030	.8990
55.0000	-.0600									
70.0000	-.0020	-.0470	-.0790	-.1720	-.2170		-.1650	-.2040	-.1670	-.1630
90.0000	.0180	-.0600	-.0790	-.1050	-.1400		-.2070	-.2100	-.2020	-.2010
105.0000									-.2040	-.2020
120.0000	-.0940	-.1840	-.1980	-.1870	-.1780		-.2110	-.2110	-.2030	-.2010
135.0000									-.1280	-.1970
150.0000	-.1660	-.1940	-.2020	-.1900	-.1700		-.1560	-.1850	-.1690	-.1210
165.0000	-.1760	-.1690	-.2040	-.1850	-.1890		-.1690		-.1760	-.1390
180.0000	-.1810	-.1510	-.1370	-.1740	-.1660		-.1550	-.1530	-.1580	

MACH (1) = 2.498 ALPHA (6) = 38.670

X/LB	.8848	.9262	.9639	1.0015	1.0092
PHI					
.0000			.8310		-.1460
40.0000	.8630	.7990			-.1180
70.0000	-.1500	-.1120	-.1820		
90.0000	-.2020	-.1990	-.1930		
105.0000	-.1990	-.2040	-.1930		
110.0000				-.1250	
120.0000	-.2010	-.2010	-.1860	-.1220	
135.0000	-.2000	-.2070	-.1900		
150.0000	-.1940	-.2060	-.1920		
165.0000	-.1650	-.1760	-.1740		

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AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0B17) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (1) = 15.160

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1591	.1732	.1958
PHI										
.0000	1.6710	1.5110	.8720	.2680	.1970	.1750			.1730	
20.0000			.9100	.3070	.2000	.1750			.1770	
40.0000			.9040	.3120	.2190	.1800			.1720	
55.0000			.8190	.3210	.1730	.0570			.0470	
70.0000			.6940	.1960	.0890	.0630			.0570	
90.0000		1.1520	.5370	.1230	.0680	.0550			.0620	
120.0000			.3490	.0680	.0450	.0630			.0650	-.0070
142.0000									.2580	
150.0000			.2660	.0420	.0330	.0620		.2670		
157.0000									.3320	
162.0000									.3390	
169.0000							.1340			
172.0000									.4710	
180.0000	1.6710	.7580	.2040	.0380	.0350	.0590				

MACH (2) = 3.501 ALPHA (1) = 15.160

X/LB	.2259	.2711	.3250	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1770	.1810	.1810	.1740	.1620	.1670				
20.0000	.1760									
40.0000	.1400	.1060	.1250	.1470	.1760	.1950	.1940		.1730	.1660
55.0000	.0460									
70.0000	.0520	.0050	-.0180	-.0280	-.0430		-.0630	-.0990	-.0860	-.0890
90.0000	.0600	-.0080	-.0340	-.0460	-.0530		-.0580	-.0690	-.0720	-.0620
105.0000									-.0430	-.0140
120.0000	.0320	-.0480	-.0620	-.0750	-.0810		-.0750	-.0740	.1450	.0760
135.0000									.0190	.0290
150.0000	-.0500	-.0640	-.0690	-.0690	-.0760		-.0810	-.0780	-.0280	-.0110
165.0000	-.0640	-.0690	-.0650	-.0570	-.0580		-.0600		-.0450	.0080
180.0000	-.0430	-.0760	-.0700	-.0540	-.0430		-.0410	-.0440	-.0370	

AMES 87-707 OA12 OPA ORBITER FUSELAGE (RB0817) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.9490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (1) = 15.160

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0690		-.0780
40.0000	.1130	.0810			-.0570
70.0000	-.1180	-.1200	-.0780		
90.0000	-.0920	-.1040	-.0630		
105.0000	-.0350	-.0760	-.0610		
110.0000				-.0420	
120.0000	-.0490	-.0790	-.0550	-.0590	
135.0000	-.0770	-.1000	-.0560		
150.0000	-.0960	-.0910	-.0540		
165.0000	-.0470	-.0570	-.0450		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (2) = 20.230

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5900	1.6210	1.0270	.3670	.2930	.2770			.2800	
20.0000			1.0480	.4110	.2980	.2770			.2880	
40.0000			.9950	.4160	.2950	.2670			.2640	
55.0000			.8640	.4190	.2080	.0590			.0240	
70.0000			.6950	.2060	.0890	.0590			.0530	
90.0000		1.0930	.4980	.1080	.0590	.0390			.0380	
120.0000			.2720	.0310	.0160	.0310			.0450	
142.0000										-.0210
150.0000			.1840	-.0010	.0020	.0260			.1780	
157.0000								.1070		
162.0000									.2280	
169.0000									.2260	
172.0000							.0500			
180.0000	1.5900	.6200	.1270	-.0100	.0070	.0240			.3110	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQ817) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.0000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0350 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (2) = 20.230

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2940	.2980	.3000	.2870	.2690	.2680				
20.0000	.2920									
40.0000	.2140	.1640	.1920	.2300	.2780	.3030	.3010		.2760	.2680
55.0000	.0270									
70.0000	.0470	.0010	-.0210	-.0360	-.0790		-.0730	-.1050	-.0870	-.0890
90.0000	.0490	-.0140	-.0390	-.0470	-.0560		-.0740	-.0980	-.0970	-.1060
105.0000									-.0660	-.0460
120.0000	.0310	-.0650	-.0850	-.0890	-.0910		-.0780	-.0730	.1920	.0910
135.0000									.0140	.0160
150.0000	-.0590	-.0760	-.0830	-.0870	-.0930		-.0850	-.0780	-.0390	-.0020
165.0000	-.0740	-.0720	-.0740	-.0720	-.0780		-.1030		-.0840	-.0320
180.0000	-.0680	-.0830	-.0740	-.0580	-.0500		-.0650	-.0730	-.0660	

MACH (2) = 3.501 ALPHA (2) = 20.230

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1620		-.0820
40.0000	.2240	.1840			-.0620
70.0000	-.1050	-.1010	-.0790		
90.0000	-.1170	-.1130	-.0820		
105.0000	-.0980	-.1020	-.0810		
110.0000				-.0660	
120.0000	-.0710	-.0910	-.0720	-.0650	
135.0000	-.0710	-.1060	-.0720		
150.0000	-.0940	-.0980	-.0720		
165.0000	-.0720	-.0790	-.0740		

AMES 87-707 OA12 OBA ORBITER FUSELAGE (R80B17) (15 MAY 73)

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (3) = 25.240

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.4800	1.6890	1.1830	.4920	.4190	.4190			.4430	
20.0000			1.1800	.5380	.4240	.4240			.4600	
40.0000			1.0770	.5360	.3880	.3850			.4030	
55.0000			.9050	.4430	.2470	.0740			.0410	
70.0000			.6910	.2230	.0940	.0530			.0750	
90.0000		1.0180	.4590	.1000	.0570	.0330			.0520	
120.0000			.2090	.0080	-.0030	.0080			.0410	
142.0000										-.0140
150.0000			.1190	-.0290	-.0080	.0040			.1610	
157.0000								.0960		
162.0000									.1600	
169.0000									.1490	
172.0000							.0290			
180.0000	1.4800	.4950	.0680	-.0390	-.0060	.0000			.2120	

MACH (2) = 3.501 ALPHA (3) = 25.240

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.4700	.4500	.4450	.4190	.3940	.3920				
20.0000	.4680									
40.0000	.3900	.2350	.2710	.3240	.4040	.4310	.4250		.3990	.3630
55.0000	.0380									
70.0000	.0690	.0020	-.0200	-.0370	-.1020		-.0700	-.1100	-.0860	-.0810
90.0000	.0360	-.0220	-.0370	-.0450	-.0540		-.1010	-.1150	-.1080	-.1050
105.0000									-.1030	-.1000
120.0000	.0000	-.0770	-.0930	-.0930	-.0840		-.0840	-.0860	.1390	.0290
135.0000									-.0130	-.0180
150.0000	-.0630	-.0810	-.0910	-.0960	-.0950		-.0850	-.0810	-.0500	-.0420
165.0000	-.0760	-.0710	-.0820	-.0910	-.1070		-.0930		-.0670	-.0310
180.0000	-.0860	-.0790	-.0720	-.0580	-.0660		-.0890	-.0810	-.0730	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB17) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (3) = 25.240

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2890		-.0760
40.0000	.3790	.3220			-.0590
70.0000	-.0630	-.0710	-.0760		
90.0000	-.0980	-.0980	-.0930		
105.0000	-.0990	-.1040	-.0900		
110.0000				-.0620	
120.0000	-.0750	-.0810	-.0770	-.0520	
135.0000	-.0740	-.0900	-.0810		
150.0000	-.0840	-.0860	-.0770		
165.0000	-.0490	-.0660	-.0770		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (4) = 30.110

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3470	1.7380	1.3180	.6210	.5610	.5850			.5930	
20.0000			1.2990	.6670	.5620	.5840			.6000	
40.0000			1.1460	.6580	.4880	.5050			.4960	
55.0000			.9260	.4900	.2840	.0880			.0190	
70.0000			.6730	.2320	.0900	.0390			.0390	
90.0000		.9260	.4160	.0850	.0520	.0330			.0320	
120.0000			.1530	-.0180	-.0240	-.0180			-.0130	
142.0000										-.0490
150.0000			.0650	-.0550	-.0270	-.0250			.0890	
157.0000								.1160		
162.0000									.0970	
169.0000									.0550	
172.0000							-.0120			
180.0000	1.3470	.3790	.0180	-.0470	-.0260	-.0250			.0950	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (REQB17) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.0490 INCHES YMRP = .0000 INCHES

BREF = 39.0490 INCHES ZMRP = .0000 INCHES

SCALE = .0500 SCALE

PARAMETRIC DATA

BETA = .000 RUDDLR = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (4) = 30.110

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6040	.6040	.5930	.5610	.5230	.5220				
20.0000	.6000									
40.0000	.3900	.2990	.3510	.4220	.5260	.5690	.5620		.5490	.5480
55.0000	.0100									
70.0000	.0310	-.0040	-.0260	-.0410	-.1060		-.0680	-.1090	-.0770	-.0750
90.0000	.0380	-.0150	-.0360	-.0460	-.0630		-.1120	-.1140	-.1040	-.1030
105.0000									-.1040	-.1030
120.0000	-.0240	-.0880	-.1040	-.0960	-.0580		-.0990	-.1000	-.0730	-.0 80
135.0000									-.0300	-.0560
150.0000	-.0690	-.0950	-.1070	-.1050	-.0930		-.0940	-.0940	-.1610	-.0655
165.0000	-.0830	-.0800	-.0990	-.1100	-.1020		-.0930		-.0710	-.0480
180.0000	-.0830	-.0860	-.0710	-.0700	-.0950		-.0880	-.0890	-.0780	

MACH (2) = 3.501 ALPHA (4) = 30.110

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4310		-.0760
40.0000	.5240	.4640			-.0550
70.0000	-.0600	-.0590	-.0770		
90.0000	-.0950	-.0960	-.0930		
105.0000	-.0930	-.1000	-.0960		
110.0000				-.0650	
120.0000	-.0930	-.0990	-.0960	-.0640	
135.0000	-.0930	-.0990	-.0930		
150.0000	-.0960	-.0990	-.0930		
165.0000	-.0660	-.0730	-.0850		

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 OEA ORBITER FUSELAGE (RB0817) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (5) = 35.250

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.1920	1.7570	1.4480	.7790	.7350	.7600			.7620	
20.0000			1.4080	.8170	.7340	.7560			.7670	
40.0000			1.1970	.7800	.6090	.6320			.6050	
55.0000			.9330	.5130	.3300	.1040			.0250	
70.0000			.6430	.2360	.0950	.0300			.0290	
90.0000		.8220	.3600	.0710	.0510	.0310			.0250	
120.0000			.0990	-.0380	-.0370	-.0350			-.0390	-.0760
142.0000									-.0300	
155.0000			.0160	-.0610	-.0420	-.0380		-.0370		
157.0000									.1140	
162.0000									.0440	
168.0000							-.0370			
172.0000									.0590	
180.0000	1.1920	.2730	-.0220	-.0560	-.0420	-.0380				

MACH (2) = 3.501 ALPHA (5) = 35.250

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.7700	.7620	.7490	.7030	.6640	.6770				
20.0000	.7810								.7180	.7180
40.0000	.4670	.3590	.4230	.5280	.6620	.7130	.7100			
55.0000	.0130						-.0650	-.1100	-.0720	-.0690
70.0000	.0270	-.0070	-.0250	-.0010	-.1130		-.1100	-.1140	-.1020	-.1030
90.0000	.0330	-.0200	-.0390	-.0470	-.0610				-.1070	-.1060
105.0000							-.0970	-.1130	-.1050	-.1050
120.0000	-.0430	-.0920	-.1110	-.1010	-.1050				-.1040	-.1040
139.0000							-.0950	-.0920	-.0830	-.1030
150.0000	-.0900	-.1030	-.1150	-.1100	-.0970		-.0950		-.0840	-.0690
165.0000	-.0860	-.0910	-.1150	-.1150	-.1040		-.0930	-.0900	-.0840	
180.0000	-.0910	-.0860	-.0840	-.0980	-.0950					

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RB0917) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (5) = 35.250

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5900		-.0760
40.0000	.6810	.6110			-.0510
70.0000	-.0640	-.0640	-.0820		
90.0000	-.1080	-.1090	-.1000		
105.0000	-.1080	-.1130	-.0990		
110.0000				-.0650	
120.0000	-.1070	-.1090	-.0970	-.0680	
135.0000	-.1060	-.1100	-.0970		
150.0000	-.1110	-.1100	-.0990		
165.0000	-.0910	-.0990	-.0950		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (6) = 30.630

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.0860	1.7460	1.5200	.9020	.8570	.8810			.8720	
20.0000			1.4690	.9290	.8540	.8740			.8750	
40.0000			1.2260	.9140	.6850	.7060			.6690	
55.0000			.9360	.5420	.3570	.1110			.0220	
70.0000			.6230	.2390	.0960	.0250			.0260	
90.0000		.7490	.3240	.0640	.0490	.0240			.0180	
120.0000			.0690	-.0460	-.0460	-.0450			-.0480	
142.0000										-.0830
150.0000			-.0080	-.0690	-.0530	-.0500			-.0510	
157.0000								-.0500		
162.0000									-.0350	
169.0000									.1200	
172.0000							-.0410			
180.0000	1.0860	.2200	-.0420	-.0680	-.0550	-.0460			.0870	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB17) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (6) = 38.630

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.8790	.8660	.8520	.8040	.7690	.7880				
20.0000	.8670									
40.0000	.5150	.4010	.4770	.6050	.7620	.8140	.8150		.8310	.8390
55.0000	.0120									
70.0000	.0290	-.0010	-.0210	-.0740	-.1070		-.0620	-.1070	-.0710	-.0640
90.0000	.0310	-.0180	-.0300	-.0420	-.0530		-.1070	-.1110	-.1040	-.1030
105.0000									-.1040	-.1030
120.0000	-.0420	-.0900	-.1010	-.0970	-.1000		-.1080	-.1030	-.1030	-.1030
135.0000									-.1010	-.1060
150.0000	-.0910	-.1010	-.1090	-.1020	-.0990		-.0950	-.1030	-.0970	-.0820
165.0000	-.0890	-.0930	-.1110	-.1050	-.1030		-.0950		-.0960	-.0850
180.0000	-.0920	-.0890	-.0880	-.0920	-.0950		-.0930	-.0920	-.0850	

MACH (2) = 3.501 ALPHA (6) = 38.630

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.7170		-.0690
40.0000	.7960	.7280			-.0440
70.0000	-.0540	-.0530	-.0800		
90.0000	-.0920	-.1030	-.0970		
105.0000	-.0890	-.1050	-.0970		
110.0000				-.0580	
120.0000	-.1040	-.1030	-.0970	-.0590	
135.0000	-.1000	-.1040	-.0950		
150.0000	-.1060	-.1020	-.0940		
165.0000	-.0960	-.1010	-.0930		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0810) (15 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = .000 SUBFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3030	1.6780	1.2890	.6220	.6300	.6250			.6200	
20.0000			1.3450	.7350	.6610	.6470			.6490	
40.0000			1.2840	.7530	.6610	.6350			.6190	
55.0000			1.0930	.5710	.4590	.1760			.5840	
70.0000			.8610	.3640	.1870	.1650			.1781	
90.0000		1.0540	.5500	.1510	.1300	.1060			.1120	
120.0000			.1930	-.0370	-.0250	-.0450			.0340	
142.0000										-.0800
150.0000			.0480	-.1080	-.0720	-.0420			.1140	
157.0000								.1650		
162.0000									.2000	
169.0000									.1620	
172.0000							.1100			
180.0000	1.3030	.3580	-.0410	-.0900	-.0770	-.0450			.2250	

MACH (1) = 2.498 BETA (1) = -6.480

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6240	.6180	.6020	.5720	.5630	.5680				
20.0000	.6380									
40.0000	.5060	.4290	.4860	.5680	.6360	.6420	.6140		.6790	.6570
55.0000	.1080									
70.0000	.1620	.0760	.0500	.0450	-.1520		-.1620	-.2000	-.1770	-.1760
90.0000	.1290	-.0010	-.0100	-.0080	-.0170		-.1720	-.2100	-.2040	-.2070
105.0000									-.1810	-.1790
120.0000	.0290	-.1470	-.1640	-.1610	-.1560		-.1130	-.1130	.1950	.0120
135.0000									.0520	-.0370
150.0000	-.1250	-.1750	-.1820	-.1770	-.1540		-.1080	-.1020	-.0080	-.0480
165.0000	-.1380	-.1180	-.1780	-.1730	-.1630		-.1290		-.0880	.0120
180.0000	-.1870	-.1780	-.1610	-.1410	-.1660		-.1460	-.1400	-.1270	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB18) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5250		-.1040
40.0000	.6070	.5310			-.1120
70.0000	-.1580	-.1260	-.1660		
90.0000	-.1730	-.1740	-.1610		
105.0000	-.1690	-.1500	-.1310		
110.0000				-.1050	
120.0000	-.0890	-.1110	-.1110	-.1040	
135.0000	-.1260	-.1570	-.1330		
150.0000	-.1500	-.1450	-.1390		
165.0000	-.0630	-.1010	-.1360		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.310

X/LB	.0000	.0075	.0198	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3130	1.5920	1.2950	.6200	.6280	.6190			.6210	
20.0000			1.3090	.6980	.6420	.6300			.6350	
40.0000			1.1950	.6810	.5960	.5720			.5530	
55.0000			.9940	.4830	.3770	.1050			.0190	
70.0000			.7520	.2830	.1250	.0900			.0990	
90.0000		.9800	.4660	.0940	.0750	.0590			.0630	
120.0000			.1500	-.0630	-.0320	-.0300			-.0140	
142.0000										-.0840
150.0000			.0290	-.0990	-.0690	-.0370			.1470	
157.0000								.1030		
162.0000									.1950	
169.0000									.1630	
172.0000							.1690			
180.0000	1.3130	.3600	-.0410	-.0840	-.0750	-.0320			.2190	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0B18) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.310

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6200	.6090	.6010	.5680	.5540	.5710				
20.0000	.6210									
40.0000	.4290	.3500	.4140	.5100	.5910	.6090	.5920		.6340	.6320
55.0000	.0260									
70.0000	.1070	.0300	-.0010	-.0530	-.1930		-.1660	-.2070	-.1790	-.1720
90.0000	.0680	-.0350	-.0390	-.0420	-.0790		-.2040	-.2180	-.2140	-.2090
105.0000									-.1960	-.2020
120.0000	.0000	-.1550	-.1760	-.1710	-.1440		-.1280	-.1410	-.0770	-.1480
135.0000									.0310	-.0580
150.0000	-.1230	-.1680	-.1850	-.1780	-.1570		-.1190	-.1120	-.0190	-.0160
165.0000	-.1370	-.1230	-.1720	-.1790	-.1790		-.1450		-.0990	.0150
180.0000	-.1800	-.1580	-.1380	-.1160	-.1530		-.1410	-.1440	-.1370	

MACH (1) = 2.498 BETA (2) = -3.310

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5200		-.1260
40.0000	.5860	.5150			-.1120
70.0000	-.1670	-.1640	-.1710		
90.0000	-.2040	-.2010	-.1680		
105.0000	-.1990	-.1900	-.1760		
110.0000				-.0830	
120.0000	-.1450	-.1550	-.1330	-.0830	
135.0000	-.1480	-.1610	-.1280		
150.0000	-.1600	-.1500	-.1430		
165.0000	-.0440	-.0760	-.1190		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB18) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.130

X/LB	.0000	.0079	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3210	1.6920	1.2940	.6240	.6290	.6220			.6200	
20.0000			1.2710	.6740	.6280	.6170			.6210	
40.0000			1.1240	.6250	.5370	.5160			.4900	
55.0000			.9080	.4150	.3040	.0490			-.0340	
70.0000			.6600	.2160	.0730	.0270			.0290	
90.0000		.9160	.3980	.0450	.0300	.0190			.0170	
120.0000			.1150	-.0820	-.0660	-.0360			-.0260	
142.0000										-.0650
150.0000			.0150	-.0870	-.0710	-.0480			.1640	
157.0000								.2830		
162.0000									.1570	
169.0000									.0790	
172.0000							.0290			
180.0000	1.3210	.3660	-.0380	-.0780	-.0730	-.0170			.1320	

MACH (1) = 2.498 BETA (3) = -.130

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6200	.6100	.5970	.5620	.5480	.5680				
20.0000	.6050									
40.0000	.3610	.2740	.3460	.4460	.5520	.5810	.5740		.6140	.6040
55.0000	-.0330									
70.0000	.0270	-.0260	-.0630	-.1100	-.2090		-.1640	-.1920	-.1690	-.1670
90.0000	.0260	-.0620	-.0660	-.0790	-.1180		-.2020	-.2010	-.1940	-.1960
105.0000									-.1940	-.1990
120.0000	-.0410	-.1670	-.1870	-.1810	-.1570		-.1430	-.1760	-.1880	-.1980
135.0000									-.0270	-.1590
150.0000	-.1330	-.1690	-.1890	-.1870	-.1630		-.1460	-.1460	-.0800	-.0470
165.0000	-.1580	-.1280	-.1610	-.1750	-.2000		-.1610		-.1130	-.0430
180.0000	-.1550	-.1420	-.1100	-.0940	-.1390		-.1330	-.1300	-.1190	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 C2A ORBITER FUSELAGE (RBQB10) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.130

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5350		-.1020
40.0000	.5740	.5120			-.1140
70.0000	-.1550	-.1550	-.1750		
90.0000	-.1920	-.1900	-.1820		
105.0000	-.1910	-.1910	-.1810		
110.0000				-.0830	
120.0000	-.1910	-.1930	-.1820	-.0840	
135.0000	-.1900	-.1970	-.1790		
150.0000	-.1610	-.1710	-.1800		
180.0000	-.0940	-.1260	-.1560		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3100	1.6770	1.2800	.6170	.6200	.6160			.6130	
20.0000			1.2260	.6390	.6010	.5960			.6010	
40.0000			1.0380	.5560	.4690	.4480			.4180	
55.0000			.8180	.3960	.2320	-.0070			-.0830	
70.0000			.5660	.1450	.0210	-.0300			-.0340	
90.0000		.8390	.3230	-.0050	-.0150	-.0200			-.0190	
120.0000			.0740	-.1110	-.0790	-.0570			-.0380	-.0930
142.0000									.1450	
150.0000			-.0090	-.1020	-.0820	-.0400		.0720		
157.0000									.0830	
162.0000									.0800	
169.0000							.0260			
172.0000									.2350	
180.0000	1.3100	.3560	-.0440	-.0970	-.0820	-.0300				

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBQB18) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6150	.6120	.6000	.5630	.5390	.5600				
20.0000	.5950									
40.0000	.2900	.2010	.2660	.3750	.5050	.5430	.5430		.5740	.5750
55.0000	-.0960									
70.0000	-.0410	-.0780	-.1080	-.1120	-.2220		-.1730	-.1980	-.1770	-.1750
90.0000	-.0140	-.0870	-.1000	-.1260	-.1590		-.2160	-.2070	-.2010	-.2030
105.0000									-.2030	-.2060
125.0000	-.0840	-.1750	-.1990	-.1970	-.1720		-.1900	-.2110	-.1940	-.2070
135.0000									-.1070	-.2160
150.0000	-.1450	-.1670	-.1840	-.1940	-.1830		-.1750	-.1900	-.1610	-.1070
165.0000	-.1530	-.1310	-.1550	-.1600	-.1880		-.1950		-.1740	-.1210
180.0000	-.1810	-.1550	-.1430	-.1240	-.1590		-.1500	-.1520	-.1410	

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5260		-.1640
40.0000	.5490	.5060			-.1640
70.0000	-.1660	-.1410	-.1820		
90.0000	-.2050	-.2000	-.1920		
105.0000	-.2050	-.2040	-.1920		
110.0000				-.0930	
120.0000	-.2080	-.2060	-.1910	-.1640	
135.0000	-.2100	-.2100	-.1920		
150.0000	-.1950	-.2110	-.1920		
165.0000	-.1650	-.1940	-.1800		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (R80B18) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3020	1.6660	1.2700	.6160	.6180	.6130			.6110	
20.0000			1.1750	.6040	.5840	.5810			.5850	
40.0000			.9530	.4920	.4140	.3850			.3480	
55.0000			.7250	.2740	.1740	-.0470			-.1190	
70.0000			.4840	.0900	-.0190	-.0730			-.0820	
90.0000		.7650	.2580	-.0420	-.0470	-.0510			-.0520	
120.0000			.0440	-.1210	-.0830	-.0730			-.0580	
142.0000										-.1030
150.0000			-.0200	-.0990	-.0840	-.0440		.0420	.0950	
157.0000									.1080	
162.0000									.1270	
169.0000							.1390			
172.0000									.1930	
180.0000	1.3020	.3570	-.0440	-.0980	-.0820	-.0480				

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6170	.6140	.5960	.5630	.5470	.5590				
20.0000	.5850									
40.0000	.2240	.1340	.1940	.3000	.4700	.5170	.5270		.5530	.5600
55.0000	-.1350									
70.0000	-.0930	-.1230	-.1430	-.2030	-.2050		-.1690	-.2000	-.1750	-.1730
90.0000	-.0410	-.1070	-.1290	-.1330	-.2070		-.2040	-.2080	-.2050	-.2040
105.0000									-.2060	-.2030
120.0000	-.0960	-.1710	-.1950	-.1860	-.1800		-.2070	-.2090	-.2040	-.2020
135.0000									-.1620	-.2000
150.0000	-.1220	-.1580	-.1700	-.1830	-.1820		-.2010	-.2080	-.1800	-.1350
165.0000	-.1730	-.1370	-.1430	-.1390	-.1800		-.1990		-.1920	-.1440
180.0000	-.1880	-.1850	-.1610	-.1430	-.1690		-.1540	-.1520	-.1340	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB10) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	.8348	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5230		-.1280
40.0000	.5350	.5040			-.1210
75.0000	-.1690	-.1430	-.1810		
90.0000	-.2050	-.2060	-.1920		
105.0000	-.2050	-.2060	-.1900		
110.0000				-.0930	
120.0000	-.2040	-.2070	-.1890	-.1190	
135.0000	-.2070	-.2040	-.1870		
150.0000	-.1780	-.1940	-.1870		
165.0000	-.1780	-.1700	-.1680		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (1) = -6.700

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.2900	1.6800	1.2760	.6030	.5470	.5710			.5820	
25.0000			1.3430	.7020	.5800	.5960			.6130	
40.0000			1.2760	.7030	.5940	.6190			.6160	
55.0000			1.0870	.6120	.4130	.1970			.1190	
70.0000			.8430	.3520	.1810	.1430			.1470	
90.0000		1.0460	.5420	.1680	.1240	.1030			.1060	
120.0000			.2100	.0160	.0060	-.0160			.0320	
142.0000										-.0470
150.0000			.0860	-.0420	-.0360	-.0220			.0760	
157.0000								.1150		
162.0000									.1330	
169.0000									.1360	
172.0000							.0130			
180.0000	1.2900	.3610	.0170	-.0600	-.0350	-.0380			.1530	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C (RB0818) (16 MAY 73)

AMES 87-707 OA12 02A ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (1) = -6.700

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.5950	.5950	.5900	.5620	.5400	.5370				
20.0000	.6100						.6170		.5980	.5810
40.0000	.5260	.4350	.4840	.5470	.6250	.6370				
55.0000	.1290						-.0620	-.1050	-.0780	-.0740
70.0000	.1520	.0780	.0500	.0390	-.0640		-.0620	-.1040	-.1040	-.1050
90.0000	.1180	.0370	.0160	.0200	.0120				-.0810	-.0770
105.0000							-.0730	-.0790	.2420	.0980
120.0000	.0270	-.0710	-.0800	-.0800	-.0880				.0050	-.0060
135.0000							-.0780	-.0770	-.0600	-.0740
150.0000	-.1360	-.0910	-.0960	-.0980	-.0880		-.0810		-.0740	-.0500
165.0000	-.0780	-.0770	-.1030	-.1000	-.0890		-.0880	-.0860	-.0840	
180.0000	-.0960	-.0940	-.0940	-.0880	-.0960					

MACH (2) = 3.501 BETA (1) = -6.700

X/LB	.8848	.9262	.9659	1.0015	1.0392
PHI					
.0000			.4260		-.0680
40.0000	.5370	.4750			-.0540
70.0000	-.0700	-.0650	-.0710		
90.0000	-.0790	-.0950	-.0850		
105.0000	-.0770	-.0870	-.0700		
110.0000				-.0660	
120.0000	-.0540	-.0680	-.0600	-.0660	
135.0000	-.0510	-.1030	-.0930		
150.0000	-.1010	-.1070	-.0930		
165.0000	-.0870	-.0950	-.0940		

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB18) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3250	1.7260	1.3060	.6140	.5550	.5800			.5870	
20.0000			1.3280	.6880	.5730	.5940			.6070	
40.0000			1.2160	.6890	.5430	.5680			.5590	
55.0000			1.0120	.5490	.3500	.1390			.0660	
70.0000			.7630	.2900	.1360	.0870			.0890	
90.0000		.9890	.4790	.1260	.0870	.0650			.0640	
120.0000			.1800	-.0020	-.0110	-.0280			.0020	-.0540
142.0000										
150.0000			.0730	-.0500	-.0310	-.0210			.0830	
157.0000								.0680		
162.0000									.1340	
169.0000									.1300	
172.0000							.0080			
180.0000	1.3250	.3720	.0170	-.0530	-.0300	-.0290			.1470	

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8289
PHI										
.0000	.5990	.5970	.5880	.5610	.5290	.5320				
20.0000	.6050									
40.0000	.4610	.3670	.4150	.4850	.5810	.6030	.5870		.5710	.5640
55.0000	.0650									
70.0000	.0860	.0340	.0060	-.0160	-.1000		-.0670	-.1110	-.0770	-.0740
90.0000	.0720	.0080	-.0110	-.0130	-.0360		-.0980	-.1160	-.1080	-.1050
103.0000									-.1040	-.1040
120.0000	-.0050	-.0830	-.0980	-.0890	-.0940		-.0870	-.0890	.1250	.0210
135.0000									-.0040	-.0300
150.0000	-.0740	-.0960	-.1020	-.1010	-.0910		-.0800	-.0800	-.0530	-.0630
165.0000	-.0840	-.0780	-.1020	-.1030	-.0930		-.0850		-.0690	-.0450
180.0000	-.0960	-.0930	-.0850	-.0800	-.0970		-.0940	-.0910	-.0810	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB18) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4290		-.0690
40.0000	.5320	.4710			-.0600
70.0000	-.0610	-.0660	-.0810		
90.0000	-.0700	-.1010	-.0970		
105.0000	-.0710	-.1010	-.0980		
110.0000				-.0670	
120.0000	-.0640	-.0670	-.0700	-.0680	
135.0000	-.0600	-.0970	-.0950		
150.0000	-.0960	-.1020	-.0970		
165.0000	-.0760	-.0870	-.0920		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.130

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3490	1.7460	1.3180	.6230	.5820	.5900			.5970	
20.0000			1.3030	.6700	.5660	.5870			.6030	
40.0000			1.1470	.6700	.4930	.5060			.4990	
55.0000			.9280	.4750	.2870	.0890			.0210	
70.0000			.6730	.2330	.0930	.0430			.0370	
90.0000		.9290	.4110	.0870	.0530	.0360			.0310	
120.0000			.1320	-.0190	-.0220	-.0140			-.0180	-.0480
142.0000										
150.0000			.0620	-.0530	-.0250	-.0230			.0910	
157.0000								.1140		
162.0000									.0980	
165.0000									.0550	
172.0000							-.0110			
180.0000	1.3490	.3770	.0200	-.0470	-.0230	-.0230			.0920	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0B18) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.5000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.130

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6060	.6060	.5950	.5650	.5260	.5230				
20.0000	.6010									
40.0000	.3920	.2980	.3500	.4250	.5290	.5690	.5630		.5490	.5460
55.0000	.0130									
70.0000	.0320	-.0040	-.0260	-.0430	-.1060		-.0680	-.1110	-.0780	-.0740
90.0000	.0390	-.0150	-.0320	-.0460	-.0640		-.1130	-.1140	-.1060	-.1040
105.0000									-.1050	-.1080
120.0000	-.0240	-.0850	-.1030	-.0980	-.0960		-.0980	-.1000	-.0770	-.1050
135.0000									-.0320	-.0590
150.0000	-.0680	-.0920	-.1060	-.1050	-.0930		-.0930	-.0930	-.0660	-.0675
165.0000	-.0840	-.0790	-.0980	-.1080	-.1020		-.0920		-.0720	-.0490
180.0000	-.0850	-.0820	-.0720	-.0570	-.0990		-.0910	-.0890	-.0790	

MACH (2) = 3.501 BETA (3) = -.130

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4320		-.0770
40.0000	.5200	.4610			-.0540
70.0000	-.0660	-.0390	-.0750		
90.0000	-.1040	-.0940	-.0930		
105.0000	-.1010	-.1010	-.0950		
110.0000				-.0680	
120.0000	-.1010	-.1000	-.0960	-.0670	
135.0000	-.1000	-.1010	-.0960		
150.0000	-.0960	-.1000	-.0940		
165.0000	-.0630	-.0780	-.0850		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBGB18) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.170

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3360	1.7270	1.3040	.6170	.5570	.5030			.6160	
20.0000			1.2460	.6330	.5430	.5680			.6260	
40.0000			1.0520	.6330	.4300	.4440			.4760	
55.0000			.8260	.3920	.2250	.0480			.0380	
70.0000			.5800	.1730	.0570	.0040			.0480	
90.0000		.8440	.3410	.0510	.0230	.0060			.0540	
120.0000			.1190	-.0320	-.0280	-.0210			.0300	
142.0000										.0000
150.0000			.0490	-.0550	-.0270	-.0230			.1220	
157.0000								.0170		
162.0000									.0970	
166.0000									.1070	
172.0000							-.0130			
180.0000	1.3360	.3760	.0170	-.0500	-.0280	-.0240			.1950	

MACH (2) = 3.501 BETA (4) = 3.170

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.9283
PHI										
.0000	.6520	.6010	.5910	.5620	.5320	.5300				
20.0000	.6360									
40.0000	.3710	.2320	.2780	.3580	.4810	.5290	.5340		.5250	.5240
55.0000	.0260									
70.0000	.0410	-.0340	-.0520	-.0890	-.1100		-.0700	-.1080	-.0780	-.0750
90.0000	.0070	-.0390	-.0560	-.0690	-.0550		-.1100	-.1110	-.1050	-.1020
105.0000									-.1050	-.1030
120.0000	-.0450	-.0910	-.1050	-.1020	-.1020		-.1080	-.1120	-.1030	-.1020
135.0000									-.1030	-.1010
150.0000	-.0760	-.0900	-.1070	-.1050	-.1010		-.1010	-.1010	-.0920	-.1010
165.0000	-.0780	-.0760	-.0930	-.1040	-.1080		-.1040		-.0820	-.0610
180.0000	-.0940	-.0890	-.0800	-.0800	-.0990		-.0960	-.0940	-.0830	

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RB3919) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.170

X/LB	.8948	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4250		-.0780
40.0000	.5010	.4420			-.0590
70.0000	-.0670	-.0410	-.0820		
90.0000	-.0780	-.1040	-.0990		
105.0000	-.0880	-.1070	-.0970		
110.0000				-.0700	
120.0000	-.1060	-.1090	-.0970	-.0720	
135.0000	-.1020	-.1070	-.0990		
150.0000	-.1040	-.1040	-.1000		
165.0000	-.0760	-.0840	-.0900		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.470

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.2940	1.6710	1.2590	.5990	.5400	.5690			.5780	
20.0000			1.1720	.5890	.5120	.5410			.5600	
40.0000			.9530	.5900	.5700	.3740			.3580	
55.0000			.7250	.3290	.1710	.0080			-.0420	
70.0000			.4910	.1210	.0230	-.0290			-.0360	
90.0000		.7550	.2750	.0170	-.0060	-.0200			-.0250	
120.0000			.0860	-.0500	-.0340	-.0310			-.0330	
142.0000										-.0670
150.0000			.0320	-.0640	-.0330	-.0300			.0280	
157.0000								-.0110		
162.0000									.0660	
169.0000									.1020	
172.0000							-.0100			
180.0000	1.2940	.3600	.0130	-.0650	-.0360	-.0360			.1470	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB3B12) (15 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3400 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.470

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7859	.8283
PHI										
.0000	.5910	.5900	.5850	.5600	.5400	.5350				
20.0000	.5650									
40.0000	.2550	.1690	.2130	.2920	.4230	.4700	.4920		.4910	.4910
55.0000	-.0530									
70.0000	-.0430	-.0590	-.0700	-.1060	-.1050		-.0720	-.1120	-.0620	-.0790
90.0000	-.0240	-.0600	-.0770	-.0830	-.1120		-.1090	-.1130	-.1070	-.1040
105.0000									-.1070	-.1080
120.0000	-.0600	-.0940	-.1070	-.1060	-.1010		-.1130	-.1130	-.1080	-.1070
135.0000									-.0740	-.1050
150.0000	-.0690	-.0890	-.1040	-.1080	-.1030		-.1060	-.1100	-.0940	-.0520
165.0000	-.0930	-.0820	-.0900	-.0990	-.1060		-.1030		-.0950	-.0760
180.0000	-.0980	-.0980	-.0930	-.0910	-.1000		-.0940	-.0940	-.0870	

MACH (2) = 3.501 BETA (5) = 6.470

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4070		-.0850
40.0000	.4630	.4050			-.0660
70.0000	-.0880	-.0690	-.0820		
90.0000	-.1150	-.1210	-.1010		
105.0000	-.1140	-.1240	-.1020		
110.0000				-.0810	
120.0000	-.1230	-.1250	-.1020	-.0810	
135.0000	-.1220	1250	-.1040		
150.0000	-.1210	-.1180	-.0980		
165.0000	-.1200	-.1130	-.0980		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0B19) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

X/LB	.0000	.0075	.0188	.0339	.0602	.1055	.1506	.1581	.1732	.1958
PHI										
.0000	1.2780	1.6740	1.2990	.6350	.6410	.6400			.6390	
20.0000			1.3510	.7450	.6710	.6610			.6670	
40.0000			1.2800	.7460	.6620	.6440			.6300	
55.0000			1.0860	.6960	.4510	.1720			.0760	
70.0000			.8480	.3560	.1790	.1580			.1710	
90.0000		1.0330	.5350	.1400	.1210	.1050			.1070	
125.0000			.1770	-.0490	-.0340	-.0580			.0140	
142.0000										-.0910
150.0000			.0350	-.1170	-.0780	-.0520			.1080	
157.0000								.1350		
162.0000									.1940	
169.0000									.1530	
172.0000							.0830			
180.0000	1.2780	.3390	-.0520	-.0970	-.0800	-.0650			.2060	

MACH (1) = 2.498 BETA (1) = -6.470

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6410	.6320	.6120	.5820	.5670	.5800				
20.0000	.6520									
40.0000	.5100	.4310	.4900	.5680	.6380	.6550	.6290		.6960	.6740
55.0000	.1000									
70.0000	.1770	.0750	.0480	.0240	-.1730		-.1610	-.2040	-.1780	-.1760
90.0000	.1170	-.0040	-.0110	-.0150	-.0280		-.1800	-.2120	-.2060	-.2100
105.0000									-.1870	-.1860
120.0000	.0280	-.1490	-.1730	-.1700	-.1620		-.1180	-.1210	.1330	-.0480
135.0000									.0410	-.0420
150.0000	-.1320	-.1810	-.1920	-.1810	-.1540		-.1130	-.1080	-.0210	-.0570
165.0000	-.1470	-.1330	-.1900	-.1800	-.1570		-.1340		-.0930	.0000
180.0000	-.1930	-.1820	-.1650	-.1500	-.1710		-.1500	-.1450	-.1270	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0B19) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5180		-.1510
40.0000	.5990	.5240			-.1140
70.0000	-.1900	-.1620	-.1680		
90.0000	-.2070	-.2090	-.1680		
105.0000	-.1940	-.1850	-.1370		
110.0000				-.1040	
120.0000	-.1250	-.1490	-.1190	-.1040	
135.0000	-.1830	-.1980	-.1420		
150.0000	-.1900	-.1850	-.1420		
165.0000	-.1100	-.1450	-.1440		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	.0000	.0075	.0186	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI									.6360	
.0000	1.2970	1.6860	1.3070	.6390	.6400	.6350			.6490	
20.0000			1.3200	.7170	.6550	.6440			.5670	
40.0000			1.2060	.7170	.6020	.5870			.0180	
55.0000			.9990	.5360	.3740	.1970			.0960	
70.0000			.7510	.2810	.1200	.0860			.0590	
90.0000		.9710	.4590	.0900	.0700	.0560			-.0450	
120.0000			.1410	-.0680	-.0590	-.0420				-.0970
142.0000									.1230	
150.0000			.0210	-.1000	-.0740	-.0430		.0840		
157.0000									.1730	
162.0000									.1470	
169.0000							.1540			
172.0000									.1950	
180.0000	1.2970	.3450	-.0480	-.0900	-.0790	-.0370				

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB19) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6280	.6290	.6090	.5730	.5580	.5340				
20.0000	.6240									
40.0000	.4320	.3530	.4210	.5150	.5980	.6180	.6060		.6570	.6510
55.0000	.0150									
70.0000	.0870	.0210	-.0040	-.0670	-.2000		-.1690	-.2100	-.1790	-.1740
90.0000	.0650	-.0340	-.0390	-.0460	-.0870		-.2090	-.2200	-.2120	-.2090
105.0000									-.1990	-.2030
120.0000	.0000	-.1580	-.1820	-.1760	-.1490		-.1330	-.1410	-.0980	-.1380
135.0000									.0140	-.0660
150.0000	-.1310	-.1760	-.1900	-.1860	-.1580		-.1290	-.1190	-.0300	-.0280
165.0000	-.1390	-.1310	-.1820	-.1800	-.1830		-.1480		-.1000	.0030
180.0000	-.1820	-.1620	-.1440	-.1270	-.1590		-.1520	-.1500	-.1400	

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	.8848	.9262	.9635	1.0015	1.0392
PHI					
.0000			.5230		-.1470
40.0000	.5880	.5150			-.1170
70.0000	-.1870	-.1580	-.1740		
90.0000	-.2280	-.2250	-.1940		
105.0000	-.2190	-.2150	-.1870		
110.0000				-.0840	
120.0000	-.1700	-.1770	-.1390	-.0860	
135.0000	-.1690	-.1900	-.1400		
150.00	-.1890	-.1820	-.1910		
165.00	-.0800	-.1090	-.1230		

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBQB19) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.140

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1906	.1981	.1732	.1958
PHI										
.0000	1.3020	1.6940	1.3080	.6390	.6420	.6380			.6380	
20.0000			1.2970	.6870	.6410	.6350			.6370	
40.0000			1.1320	.6810	.5460	.5270			.4970	
55.0000			.9110	.4300	.3080	.0480			-.0360	
70.0000			.6580	.2120	.0720	.0220			.0230	
90.0000		.9070	.3850	.0410	.0270	.0150			.0170	
120.0000			.1030	-.0890	-.0730	-.0410			-.0370	
142.0000										-.0690
150.0000			.0060	-.0900	-.0780	-.0540			.1550	
157.0000								.2700		
162.0000									.1490	
169.0000									.0660	
172.0000							.0200			
180.0000	1.3020	.3490	-.0450	-.0950	-.0770	-.0240			.1210	

MACH (1) = 2.498 BETA (3) = -.140

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6380	.6280	.6160	.5680	.5530	.5800				
20.0000	.6290									
40.0000	.3730	.2800	.3420	.4520	.5600	.5950	.5810		.6300	.6230
55.0000	-.0410									
70.0000	.0210	-.0320	-.0680	-.1150	-.2130		-.1730	-.2030	-.1710	-.1660
90.0000	.0270	-.0620	-.0700	-.0820	-.1250		-.2210	-.2120	-.1970	-.1810
105.0000									-.1980	-.2060
120.0000	-.0400	-.1670	-.1920	-.1850	-.1620		-.1510	-.1900	-.1790	-.2020
135.0000									.0090	-.1550
150.0000	-.1360	-.1730	-.1950	-.1940	-.1640		-.1520	-.1510	-.0780	-.0550
165.0000	-.1570	-.1310	-.1690	-.1840	-.2010		-.1650		-.1090	-.0440
180.0000	-.1550	-.1430	-.1170	-.0995	-.1490		-.1350	-.1390	-.1270	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBGB19) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.9490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.140

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5270		-.1460
40.0000	.5590	.5000			-.1130
70.0000	-.1970	-.1750	-.1750		
90.0000	-.2360	-.2300	-.1810		
105.0000	-.2390	-.2360	-.1815		
110.0000				-.0810	
120.0000	-.2360	-.2360	-.1810	-.0830	
135.0000	-.2380	-.2350	-.1780		
150.0000	-.1940	-.2070	-.1760		
165.0000	-.1360	-.1680	-.1570		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.2990	1.6820	1.2950	.6380	.6380	.6360			.6330	
20.0000			1.2380	.6550	.6210	.6190			.6200	
40.0000			1.0460	.6550	.4810	.4620			.4290	
55.0000			.8180	.3750	.2390	-.0050			-.0840	
70.0000			.5640	.1450	.0220	-.0350			-.0370	
90.0000		.8330	.3140	-.0050	-.0110	-.0210			-.0240	
120.0000			.0670	-.1090	-.0780	-.0590			-.0530	
142.0000										-.1050
150.0000			-.0100	-.0960	-.0840	-.0500			.1280	
157.0000								.0590		
162.0000									.0720	
169.0000									.0530	
172.0000							.0150			
180.0000	1.2990	.3440	-.0470	-.0930	-.0840	-.0370			.1920	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB19) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6140	.6270	.6090	.5710	.5580	.5790				
20.0000	.5940									
40.0000	.2850	.2020	.2660	.3860	.5200	.5620	.5610		.5940	.5950
56.0000	-.1060									
70.0000	-.0550	-.0860	-.1100	-.1720	-.2180		-.1700	-.2010	-.1760	-.1730
90.0000	-.0130	-.0860	-.0970	-.1270	-.1540		-.2100	-.2050	-.2000	-.1860
105.0000									-.2000	-.2010
120.0000	-.0890	-.1760	-.1970	-.1850	-.1730		-.1980	-.2080	-.1980	-.2080
135.0000									-.1250	-.2150
150.0000	-.1440	-.1690	-.1850	-.1970	-.1800		-.1770	-.1890	-.1650	-.1210
165.0000	-.1490	-.1310	-.1590	-.1690	-.1940		-.1960		-.1710	-.1120
180.0000	-.1790	-.1590	-.1420	-.1250	-.1600		-.1550	-.1570	-.1440	

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5290		-.1530
40.0000	.5540	.5090			-.1180
70.0000	-.1820	-.1790	-.1840		
90.0000	-.2010	-.2190	-.1920		
105.0000	-.2190	-.2200	-.1920		
110.0000				-.1260	
120.0000	-.2250	-.2220	-.1900	-.1290	
135.0000	-.2240	-.2250	-.1890		
150.0000	-.2070	-.2250	-.1930		
165.0000	-.1810	-.2120	-.1800		

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBQB19) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.250

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.2920	1.6710	1.2880	.6370	.6350	.6330			.6280	
20.0000			1.1910	.6220	.6020	.6020			.6020	
40.0000			.9630	.6060	.4240	.3950			.3460	
55.0000			.7300	.2760	.1780	-.0460			-.1430	
70.0000			.4800	.0910	-.0180	-.0770			-.1070	
90.0000		.7590	.2540	-.0420	-.0480	-.0530			-.0730	
120.0000			.0360	-.1230	-.0850	-.0720			-.0740	
142.0000										-.1340
150.0000			-.0260	-.1020	-.0860	-.0520			.0680	
157.0000								.0400		
162.0000									.0750	
169.0000									.1010	
172.0000							.1280			
180.0000	1.2920	.3450	-.0510	-.0990	-.0840	-.0500			.1710	

MACH (1) = 2.498 BETA (5) = 6.250

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6300	.6310	.6150	.5800	.5630	.5740				
20.0000	.5970									
40.0000	.2130	.1420	.2030	.3090	.4800	.5290	.5430		.5680	.5750
55.0000	-.1590									
70.0000	-.1190	-.1220	-.1420	-.2070	-.2020		-.1680	-.2020	-.1770	-.1740
90.0000	-.0420	-.1060	-.1320	-.1420	-.2070		-.2070	-.2100	-.2050	-.1880
105.0000									-.2070	-.2060
120.0000	-.1010	-.1720	-.1990	-.1860	-.1770		-.2110	-.2110	-.2060	-.2030
135.0000									-.1600	-.1910
150.0000	-.1220	-.1600	-.1750	-.1820	-.1870		-.2030	-.2090	-.1860	-.1520
165.0000	-.1670	-.1350	-.1440	-.1420	-.1890		-.2020		-.1930	-.1460
180.0000	-.1870	-.1920	-.1600	-.1450	-.1730		-.1560	-.1490	-.1360	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0819) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.250

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5310		-.1530
40.0000	.5390	.5070			-.1210
70.0000	-.1850	-.1630	-.1810		
90.0000	-.2170	-.2250	-.1950		
105.0000	-.2170	-.2310	-.1940		
110.0000				-.0920	
120.0000	-.2270	-.2300	-.1910	-.1450	
135.0000	-.2290	-.2300	-.1940		
150.0000	-.2290	-.2100	-.1840		
165.0000	-.1990	-.2000	-.1680		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.700

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.2790	1.6840	1.2980	.6190	.5650	.5940			.6010	
20.0000			1.3560	.7230	.5970	.6180			.6370	
40.0000			1.2900	.7230	.6100	.6340			.6350	
55.0000			1.0950	.6910	.4150	.1980			.1180	
70.0000			.8450	.3530	.1810	.1400			.1470	
90.0000		1.0390	.5360	.1650	.1230	.1030			.1070	
120.0000			.2020	.0120	.0040	-.0210			.0270	
142.0000									*	-.0480
150.0000			.0790	-.0460	-.0380	-.0300			.0650	
157.0000								.1060		
162.0000									.1230	
169.0000									.1310	
172.0000							.0010			
180.0000	1.2790	.3540	.0080	-.0610	-.0390	-.0390			.1500	

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBQS19) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.700

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6160	.6150	.6080	.5800	.5540	.5530				
20.0000	.6320									
40.0000	.5330	.4460	.4950	.5620	.6450	.6550	.6350		.6200	.6000
55.0000	.1230									
70.0000	.1510	.0770	.0510	.0360	-.0780		-.0640	-.1090	-.0770	-.0760
90.0000	.1200	.0350	.0160	.0190	.0060		-.0720	-.1100	-.1070	-.1070
105.0000									-.0890	-.0820
120.0000	.0250	-.0720	-.0960	-.0810	-.0900		-.0790	-.0850	.2320	.0900
135.0000									-.0030	-.0110
150.0000	-.0690	-.0930	-.1010	-.0980	-.0900		-.0820	-.0850	-.0660	-.0820
165.0000	-.0800	-.0830	-.1070	-.1020	-.0930		-.0850		-.0760	-.0580
180.0000	-.1020	-.0970	-.0970	-.0910	-.1000		-.0920	-.0900	-.0870	

MACH (2) = 3.502 BETA (1) = -6.700

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4170		-.0770
40.0000	.5370	.4670			-.0520
70.0000	-.0940	-.0940	-.0770		
90.0000	-.1250	-.1310	-.0920		
105.0000	-.1270	-.1240	-.0800		
110.0000				-.0220	
120.0000	-.0890	-.0990	-.0630	-.0220	
135.0000	-.0880	-.1340	-.0980		
150.0000	-.1390	-.1400	-.1010		
165.0000	-.1240	-.1290	-.0970		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0B19) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -3.420

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3210	1.7340	1.3320	.6370	.5780	.6060			.6130	
20.0000			1.3510	.7120	.5980	.6160			.6300	
40.0000			1.2340	.7140	.5630	.5860			.5770	
55.0000			1.0210	.6040	.3580	.1450			.0700	
70.0000			.7620	.2950	.1380	.0880			.0850	
90.0000		.9860	.4730	.1270	.0900	.0720			.0730	
120.0000			.1770	-.0010	-.0090	-.0270			.0040	-.0510
142.0000									.0830	
150.0000			.0730	-.0510	-.0260	-.0200		.0590		
157.0000									.1350	
162.0000									.1310	
169.0000							.0010			
172.0000									.1400	
180.0000	1.3210	.3650	.0160	-.0480	-.0250	-.0260				

MACH (2) = 3.502 BETA (2) = -3.420

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6200	.6210	.6130	.5830	.5900	.5530				
20.0000	.6280									
40.0000	.4690	.3790	.4270	.5040	.5990	.6230	.6079		.5940	.5990
55.0000	.0640									
70.0000	.0840	.0380	.0120	-.0140	-.1050		-.0630	-.1130	-.0780	-.0720
90.0000	.0800	.0120	-.0040	-.0130	-.0350		-.1010	-.1130	-.1050	-.1050
105.0000									-.1040	-.1040
120.0000	-.0030	-.0770	-.0980	-.0880	-.0940		-.0880	-.0890	.0650	.0090
135.0000									-.0100	-.0330
150.0000	-.0690	-.0920	-.1040	-.1010	-.0880		-.0820	-.0830	-.0550	-.0650
165.0000	-.0760	-.0740	-.1060	-.1010	-.0920		-.0840		-.0700	-.0500
180.0000	-.0930	-.0890	-.0830	-.0780	-.0970		-.0940	-.0910	-.0780	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB19) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMR = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -3.420

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4220		-.0740
40.0000	.5320	.4840			-.0500
70.0000	-.0920	-.0740	-.0760		
90.0000	-.1300	-.1290	-.0970		
105.0000	-.1290	-.1280	-.0960		
110.0000				-.0220	
120.0000	-.0890	-.0990	-.0690	-.0230	
135.0000	-.0890	-.1320	-.0950		
150.0000	-.1270	-.1330	-.0960		
165.0000	-.1120	-.1200	-.0930		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.130

X/LB	.0000	.0075	.0188	.0939	.0802	.1395	.1506	.1581	.1732	.1958
PHI									.6140	
.0000	1.3320	1.7460	1.3380	.6370	.5790	.6070			.6210	
20.0000			1.3190	.6840	.5810	.6060			.5070	
40.0000			1.1560	.6860	.4990	.5220			.0180	
55.0000			.9300	.5680	.2870	.0880			.0350	
70.0000			.6690	.2290	.0900	.0370			.0300	
90.0000		.9180	.4040	.0800	.0510	.0300			-.0190	
120.0000			.1390	-.0230	-.0280	-.0230				-.0540
142.0000									.0780	
150.0000			.0510	-.0620	-.0300	-.0290		.1120		
157.0000									.0880	
162.0000									.0490	
169.0000							-.0180			
172.0000									.0810	
180.0000	1.3320	.3630	.0080	-.0510	-.0310	-.0300				

AMES 87-707 OA12 CBA ORBITER FUSELAGE (FB3819) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = [illegible] RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.130

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8293
PHI										
.0000	.6260	.6430	.6130	.5900	.5380	.5390				
20.0000	.6210									
40.0000	.3990	.3650	.3570	.4340	.5450	.5840	.5810		.5710	.5680
55.0000	.0100									
70.0000	.0300	-.0080	-.0270	-.0420	-.1120		-.0725	-.1150	-.0800	-.0780
90.0000	.0370	-.0180	-.0380	-.0490	-.0870		-.1190	-.1220	-.1100	-.1080
105.0000									-.1110	-.1090
120.0000	-.0300	-.0890	-.1100	-.0990	-.1000		-.1075	-.1110	-.0960	-.1070
135.0000									-.0410	-.0710
150.0000	-.0720	-.1000	-.1110	-.1080	-.1000		-.0990	-.1000	-.0660	-.0720
165.0000	-.0880	-.0840	-.1060	-.1140	-.1080		-.1005		-.0760	-.0540
180.0000	-.0880	-.0850	-.0760	-.0760	-.1050		-.0945	-.0940	-.0810	

MACH (2) = 3.502 BETA (3) = -.130

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4060		-.0790
40.0000	.4990	.4350			-.0540
70.0000	-.1200	-.1190	-.0850		
90.0000	-.1600	-.1570	-.1010		
105.0000	-.1620	-.1620	-.1020		
110.0000				-.0290	
120.0000	-.1600	-.1610	-.1000	-.0270	
135.0000	-.1580	-.1620	-.1000		
150.0000	-.1610	-.1570	-.1010		
165.0000	-.1270	-.1350	-.0930		

AMES 87-707 OA12 OPA ORBITER FUSELAGE (RB3B19) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.170

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3240	1.7330	1.3270	.6400	.5800	.6060				
20.0000			1.2660	.6410	.5650	.5930			.6140	
40.0000			1.0670	.6400	.4420	.4620			.6070	
55.0000			.8340	.4980	.2300	.0500			.4400	
70.0000			.5820	.1770	.0590	.0020			-.0120	
90.0000		.8420	.3400	.0490	.0240	.0070			-.0030	
120.0000			.1150	-.0330	-.0290	-.0230			.0040	
142.0000									-.0230	
150.0000			.0440	-.0570	-.0280	-.0250				-.0480
157.0000									.0750	
162.0000								.0120		
169.0000									.0440	
172.0000									.0510	
180.0000	1.3240	.3660	.0130	-.0500	-.0270	-.0250	-.0160		.1380	

MACH (2) = 3.502 BETA (4) = 3.170

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7859	.8283
PHI										
.0000	.6240	.6250	.6150	.5800	.5500	.5510				
20.0000	.6090									
40.0000	.3310	.2430	.2890	.3720	.4990	.5450	.5530		.5460	.5430
55.0000	-.0250									
70.0000	-.0090	-.0330	-.0520	-.0910	-.1100		-.0680	-.1090	-.0770	-.0760
90.0000	.0060	-.0380	-.0590	-.0680	-.0580		-.1120	-.1130	-.1040	-.1030
105.0000									-.1050	-.1045
120.0000	-.0460	-.0920	-.1070	-.1010	-.1030		-.1130	-.1140	-.1040	-.1040
135.0000									-.1040	-.1040
150.0000	-.0730	-.0930	-.1070	-.1060	-.1020		-.1040	-.1040	-.0920	-.0870
165.0000	-.0780	-.0750	-.0960	-.1090	-.1070		-.1050		-.0840	-.0660
180.0000	-.0940	-.0900	-.0810	-.0820	-.1020		-.0970	-.0930	-.0840	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB3819) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.170

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4080		-.0780
40.0000	.4900	.4230			-.0580
70.0000	-.1120	-.0950	-.0820		
90.0000	-.1520	-.1520	-.1020		
105.0000	-.1550	-.1560	-.1030		
110.0000				-.0700	
120.0000	-.1570	-.1570	-.1030	-.0670	
135.0000	-.1550	-.1540	-.1000		
150.0000	-.1520	-.1540	-.1010		
165.0000	-.1210	-.1300	-.0930		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 6.470

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.2790	1.6700	1.2770	.6130	.5570	.5900			.5980	
20.0000			1.1860	.6040	.5220	.5600			.5770	
40.0000			.9590	.4890	.3740	.3900			.3670	
55.0000			.7270	.2820	.1740	.0100			-.0430	
70.0000			.4890	.1100	.0230	-.0300			-.0380	
90.0000		.7480	.2720	.0100	-.0040	-.0220			-.0280	
120.0000			.0780	-.0560	-.0360	-.0330			-.0350	
142.0000										-.0630
150.0000			.0220	-.0690	-.0380	-.0330			.0200	
157.0000								-.0120		
162.0000									.0530	
169.0000									.0930	
172.0000							-.0180			
180.0000	1.2790	.3460	.0030	-.0690	-.0390	-.0380			.1370	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0B19) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 6.470

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6110	.6120	.6060	.5750	.5530	.5590				
20.0000	.5810									
40.0000	.2600	.1780	.2250	.2980	.4320	.4910	.5140		.5090	.5060
55.0000	-.0540									
70.0000	-.0460	-.0560	-.0680	-.1100	-.1100		-.0670	-.1090	-.0800	-.0780
90.0000	-.0250	-.0610	-.0760	-.0850	-.1100		-.1110	-.1130	-.1090	-.1070
105.0000									-.1090	-.1070
120.0000	-.0580	-.0940	-.1110	-.1070	-.1030		-.1120	-.1130	-.1110	-.1020
135.0000									-.0670	-.0970
150.0000	-.0700	-.0890	-.1070	-.1120	-.1040		-.1080	-.1110	-.0910	-.0530
165.0000	-.0890	-.0800	-.0950	-.1050	-.1070		-.1030		-.0930	-.0790
180.0000	-.0980	-.0940	-.0950	-.0950	-.1020		-.0910	-.0930	-.0880	

MACH (2) = 3.502 BETA (5) = 6.470

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.3920		-.0770
40.0000	.4460	.7900			-.0970
70.0000	-.1280	-.0990	-.0810		
90.0000	-.1640	-.1660	-.0970		
105.0000	-.1670	-.1710	-.1010		
110.0000				-.0750	
120.0000	-.1710	-.1680	-.0990	-.0880	
135.0000	-.1680	-.1650	-.0990		
150.0000	-.1620	-.1630	-.1010		
165.0000	-.1600	-.1640	-.0990		

AMES 87-707 OA12 02A ORBITER FUSELAGE (R6QB20) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.2790	1.6730	1.2960	.6370	.6400	.6370			.6360	
20.0000			1.3480	.7440	.6700	.6610			.6650	
40.0000			1.2790	.7450	.6610	.6440			.6260	
55.0000			1.0840	.7080	.4520	.1740			.0780	
70.0000			.8470	.3530	.1790	.1570			.1670	
90.0000		1.0320	.5330	.1380	.1210	.1030			.1060	
125.0000			.1750	-.0460	-.0360	-.0570			.0120	-.0920
142.0000										
150.0000			.0320	-.1160	-.0790	-.0510			.1020	
157.0000								.1300		
162.0000									.1910	
169.0000									.1520	
172.0000							.0810			
180.0000	1.2790	.3370	-.0520	-.0970	-.0840	-.0660			.2080	

MACH (1) = 2.498 BETA (1) = -6.470

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6390	.6330	.6120	.5790	.5640	.5800				
20.0000	.6520									
40.0000	.3080	.4390	.4870	.5700	.6370	.6520	.6280		.6940	.6720
55.0000	.0960									
70.0000	.1750	.0720	.0450	.0240	-.1710		-.1640	-.2060	-.1790	-.1750
90.0000	.1150	-.0060	-.0130	-.0170	-.0290		-.1810	-.2140	-.2090	-.1910
105.0000									-.1890	-.1840
120.0000	.0280	-.1500	-.1710	-.1690	-.1630		-.1170	-.1210	.1380	-.0550
135.0000									.0480	-.0490
150.0000	-.1330	-.1830	-.1910	-.1820	-.1550		-.1150	-.1070	-.0230	-.0610
165.0000	-.1460	-.1310	-.1910	-.1800	-.1670		-.1330		-.0970	-.0040
180.0000	-.1910	-.1850	-.1670	-.1500	-.1700		-.1520	-.1440	-.1350	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB20) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5570		-.1440
40.0000	.6240	.6260			-.1040
70.0000	-.1570	-.1570	-.1810		
90.0000	-.1710	-.1770	-.1680		
105.0000	-.1740	-.1510	-.1330		
110.0000				-.0900	
120.0000	-.0980	-.1150	-.1170	-.0920	
135.0000	-.1360	-.1620	-.1410		
150.0000	-.1560	-.1500	-.1430		
165.0000	-.0760	-.1120	-.1430		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.2950	1.6850	1.3050	.6370	.6390	.6350			.6320	
20.0000			1.3200	.7160	.6550	.6430			.6480	
40.0000			1.2070	.7170	.6000	.5840			.5640	
55.0000			1.0000	.5270	.3720	.1040			.0160	
70.0000			.7520	.2780	.1170	.0840			.0920	
90.0000		.9710	.4610	.0840	.0670	.0530			.0600	
120.0000			.1390	-.0690	-.0610	-.0470			-.0330	
142.0000										-.0940
150.0000			.0190	-.1020	-.0750	-.0470			.1370	
157.0000								.0830		
162.0000									.1830	
169.0000									.1570	
172.0000							.1380			
180.0000	1.2950	.3450	-.0520	-.0900	-.0830	-.0410			.2020	

DATE 12 SEP 73 TABULATED PRESSURE DATA - OA12C (RB0B20) (16 MAY 73)

AMES 87-707 OA12 02A ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6390	.6290	.6070	.5750	.5560	.5810				
20.0000	.6400									
40.0000	.4410	.3510	.4170	.5150	.5990	.6150	.6040		.6510	.6470
55.0000	.0190						-.1730	-.2140	-.1840	-.1770
70.0000	.0940	.0200	-.0090	-.0700	-.2050		-.2120	-.2230	-.2150	-.2140
90.0000	.0610	-.0380	-.0420	-.0460	-.0900				-.2050	-.2080
105.0000							-.1370	-.1460	-.1010	-.1430
120.0000	-.0040	-.1620	-.1850	-.1790	-.1510				.0100	-.0690
135.0000							-.1250	-.1200	-.0330	-.0320
150.0000	-.1350	-.1780	-.1940	-.1870	-.1590		-.1490		-.1060	-.0010
165.0000	-.1440	-.1340	-.1820	-.1600	-.1880		-.1550	-.1520	-.1460	
180.0000	-.1860	-.1680	-.1480	-.1280	-.1630					

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5510		-.1440
40.0000	.6010	.6160			-.1060
70.0000	-.1670	-.1600	-.1830		
90.0000	-.2060	-.2000	-.1960		
105.0000	-.2066	-.1910	-.1890		
110.0000				-.0900	
120.0000	-.1910	-.1940	-.1400	-.0880	
135.0000	-.1480	-.1690	-.1390		
150.0000	-.1650	-.1580	-.1390		
165.0000	-.0550	-.0840	-.1230		

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 07-707 OA12 02A ORBITER FUSELAGE (RBQB20) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.130

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3030	1.6930	1.3050	.6380	.6420	.6400			.6380	
20.0000			1.2840	.6870	.6400	.6340			.6350	
40.0000			1.1320	.6880	.5450	.5270			.4990	
55.0000			.9100	.4190	.3070	.0480			-.0390	
70.0000			.6560	.2080	.0690	.0220			.0220	
90.0000		.9090	.3850	.0400	.0280	.0130			.0190	
120.0000			.1030	-.0890	-.0710	-.0420			-.0390	
142.0000										-.0730
150.0000			.0050	-.0520	-.0750	-.0550			.1510	
157.0000								.2710		
162.0000									.1460	
169.0000									.0640	
172.0000							.0180			
180.0000	1.3030	.3480	-.0450	-.0880	-.0760	-.0240			.1190	

MACH (1) = 2.498 BETA (3) = -.130

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6380	.6250	.6160	.5690	.5500	.5810				
20.0000	.6280									
40.0000	.3710	.2780	.3420	.4460	.5550	.5930	.5810		.6280	.6250
55.0000	-.0420									
70.0000	.0200	-.0320	-.0660	-.1160	-.2180		-.1700	-.1970	-.1720	-.1670
90.0000	.0240	-.0620	-.0690	-.0850	-.1310		-.2060	-.2020	-.1970	-.1830
105.0000									-.1940	-.1970
120.0000	-.0420	-.1690	-.1960	-.1870	-.1650		-.1480	-.1910	-.1890	-.2110
135.0000									-.0250	-.1820
150.0000	-.1360	-.1730	-.1990	-.1960	-.1660		-.1530	-.1500	-.0860	-.0560
165.0000	-.1600	-.1340	-.1720	-.1860	-.2010		-.1660		-.1170	-.0490
180.0000	-.1560	-.1450	-.1180	-.1020	-.1490		-.1375	-.1400	-.1310	

DATE 17 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 C&A ORBITER FUSELAGE RBQB20) (16 MAY 73)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

ALPHA = 41.000 RUDDER = .000

ELEVON = 0.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.130

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5640		-.1430
40.0000	.5850	.6150			-.1030
70.0000	-.1620	-.1560	-.1790		
90.0000	-.1980	-.1960	-.1830		
105.0000	-.1970	-.1970	-.1830		
110.0000				-.0670	
120.0000	-.1960	-.1960	-.1820	-.0990	
135.0000	-.1960	-.2010	-.1800		
150.0000	-.1700	-.1790	-.1820		
165.0000	-.1020	-.1340	-.1600		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.2970	1.6810	1.2940	.6350	.6370	.6320			.6320	
20.0000			1.2350	.6530	.6190	.6160			.6200	
40.0000			1.0440	.6530	.4790	.4620			.4230	
55.0000			.8190	.3670	.2930	-.0050			-.0830	
70.0000			.5650	.1420	.0200	-.0340			-.0370	
90.0000		.6310	.3140	-.0040	-.0150	-.0260			-.0220	
120.0000			.0670	-.1110	-.0790	-.0630			-.0510	-.0960
142.0000									.1290	
150.0000			-.0130	-.0960	-.0830	-.0500		.0570		
157.0000									.0760	
162.0000									.0620	
169.0000							.0160			
172.0000									.2060	
180.0000	1.2970	.3440	-.0470	-.0920	-.0840	-.0390				

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RB0B20) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6380	.6270	.6110	.5710	.5570	.5760				
25.0000	.6160									
40.0000	.2980	.2040	.2660	.3820	.5180	.5610	.5590		.5940	.5930
55.0000	-.0990									
70.0000	-.0440	-.0830	-.1070	-.1800	-.2140		-.1690	-.1920	-.1670	-.1660
90.0000	-.0120	-.0840	-.0980	-.1250	-.1810		-.2060	-.1960	-.1900	-.1780
105.0000									-.1920	-.1920
120.0000	-.0870	-.1760	-.1990	-.1830	-.1710		-.2060	-.2030	-.1900	-.1950
135.0000									-.1380	-.2080
150.0000	-.1450	-.1650	-.1830	-.1940	-.1810		-.1750	-.1910	-.1540	-.1310
165.0000	-.1510	-.1300	-.1540	-.1650	-.1960		-.1905		-.1660	-.1130
180.0000	-.1790	-.1560	-.1430	-.1250	-.1600		-.1530	-.1540	-.1440	

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5580		-.1430
40.0000	.5640	.6210			-.1070
70.0000	-.1590	-.1540	-.1850		
90.0000	-.1950	-.1950	-.1920		
105.0000	-.1950	-.1980	-.1900		
110.0000				-.0730	
120.0000	-.1950	-.1980	-.1850	-.0890	
135.0000	-.1960	-.2040	-.1860		
150.0000	-.1950	-.2060	-.1840		
165.0000	-.1670	-.1950	-.1790		

AMES 87-75/ OA12 O2A ORBITER FUSELAGE (RB0B20) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 45.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.2910	1.6690	1.2890	.6390	.6380	.6340			.6340	
20.0000			1.1930	.6240	.6050	.6030			.6080	
40.0000			.9640	.5720	.4280	.4020			.3570	
55.0000			.7310	.2820	.1790	-.0460			-.1180	
70.0000			.4810	.0910	-.0140	-.0750			-.0840	
90.0000		.7600	.2520	-.0400	-.0440	-.0540			-.0510	
125.0000			.0370	-.1200	-.0830	-.0700			-.0530	
142.0000										-.1080
150.0000			-.0270	-.0970	-.0850	-.0510			.0870	
157.0000								.0400		
162.0000									.0920	
169.0000									.1220	
172.0000							.1310			
180.0000	1.2910	.3480	-.0480	-.0960	-.0850	-.0480			.1850	

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6360	.6310	.6150	.5810	.5640	.5740				
20.0000	.6030									
40.0000	.2300	.1420	.2010	.3100	.4850	.5310	.5430		.5690	.5780
55.0000	-.1330									
70.0000	-.0920	-.1220	-.1400	-.2060	-.2020		-.1710	-.2030	-.1780	-.1760
90.0000	-.0410	-.1060	-.1330	-.1300	-.2060		-.2080	-.2100	-.2030	-.1870
105.0000									-.2060	-.2040
120.0000	-.1000	-.1730	-.1960	-.1820	-.1850		-.2100	-.2120	-.2020	-.2110
135.0000									-.1530	-.1880
150.0000	-.1230	-.1590	-.1710	-.1820	-.1880		-.2040	-.2070	-.1840	-.1560
165.0000	-.1640	-.1330	-.1430	-.1410	-.1880		-.2030		-.1910	-.1440
180.0000	-.1890	-.1790	-.1600	-.1420	-.1710		-.1570	-.1480	-.1340	

AMES 87-707 CA12 C2A ORBITER FUSELAGE (RBQB20) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

SREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5520		-.1440
40.0000	.5370	.6270			-.1090
70.0000	-.1930	-.1720	-.1890		
90.0000	-.2340	-.2280	-.1940		
105.0000	-.2360	-.2320	-.1940		
110.0000				-.0750	
120.0000	-.2420	-.2370	-.1920	-.1320	
135.0000	-.2410	-.2330	-.1950		
150.0000	-.2030	-.2130	-.1890		
165.0000	-.2000	-.2010	-.1680		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (1) = -6.700

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.2770	1.6820	1.2950	.6180	.5640	.5900			.6000	
20.0000			1.3530	.7210	.5980	.6160			.6320	
40.0000			1.2870	.7210	.6080	.6320			.6320	
55.0000			1.0920	.6390	.4150	.1960			.1170	
70.0000			.8410	.5520	.1770	.1380			.1440	
90.0000		1.0350	.5350	.1620	.1220	.1020			.1050	
120.0000			.2010	.0100	.0010	-.0220			.0260	
142.0660										-.0550
150.0000			.0770	-.0460	-.0390	-.0290			.0650	
157.0060								.1040		
162.0000									.1230	
169.0060									.1330	
172.0760							-.0010			
180.0000	1.2770	.3480	.0080	-.0620	-.0400	-.0420			.1480	

AMES 87-707 OA12 OBA ORBITER FUSELAGE (PB3B20) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (1) = -6.700

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8263
PHI										
.0000	.6140	.6120	.6070	.5780	.5510	.5530				
20.0000	.6320									
40.0000	.5320	.4440	.4910	.5590	.6440	.6550	.6340		.6170	.5
55.0000	.1230									
70.0000	.1480	.0750	.0480	.0350	-.0780		-.0620	-.1080	-.0910	-.0
90.0000	.1200	.0370	.0150	.0190	.0060		-.0710	-.1060	-.1080	-.1
105.0000									-.0900	-.1
120.0000	.0240	-.0730	-.0930	-.0820	-.0910		-.0750	-.0830	.2320	
135.0000									-.0020	-.0
150.0000	-.0710	-.0950	-.1010	-.1000	-.0900		-.0790	-.0910	-.0660	-.0
165.0000	-.0820	-.0810	-.1060	-.1000	-.0930		-.0830		-.0750	-.0
180.0000	-.1000	-.0970	-.0980	-.0900	-.0980		-.0910	-.0860	-.0850	

MACH (2) = 3.501 BETA (1) = -6.700

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4430		-.0710
40.0000	.5580	.5450			-.0420
70.0000	-.0660	-.0640	-.0840		
90.0000	-.0970	-.1000	-.0940		
105.0000	-.0970	-.0930	-.0790		
110.0000				-.0050	
120.0000	-.0610	-.0670	-.0620	-.0060	
135.0000	-.0610	-.1040	-.0970		
150.0000	-.1090	-.1110	-.1020		
165.0000	-.0920	-.0990	-.0970		

DATE 17 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQB20) (16 MAY 73)

AMES 87-707 OA12 02A ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.3490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3160	1.7290	1.3280	.6330	.5750	.6030			.6100	
20.0000			1.3470	.7080	.5930	.6140			.6310	
40.0000			1.2280	.7100	.5580	.5830			.5770	
55.0000			1.0150	.5580	.3530	.1410			.0660	
70.0000			.7550	.2890	.1350	.0860			.0880	
90.0000		.9820	.4700	.1210	.0870	.0650			.0670	
120.0000			.1710	-.0080	-.0110	-.0330			-.0010	
142.0000										-.0550
150.0000			.0650	-.0540	-.0300	-.0250		.0500	.0750	
157.0000									.1300	
162.0000									.1280	
169.0000							-.0020			
172.0000									.1380	
180.0000	1.3160	.3590	.0110	-.0540	-.0330	-.0310				

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6200	.6190	.6090	.5800	.5420	.5480				
20.0000	.6270						.6030		.5910	.5840
40.0000	.4580	.3760	.4240	.5000	.5970	.6180				
55.0000	.0630						-.0700	-.1180	-.0830	-.0800
70.0000	.0860	.0320	.0050	-.0200	-.1060		-.1060	-.1230	-.1120	-.1120
90.0000	.0760	.0070	-.0110	-.0160	-.0390				-.1090	-.0960
108.0000							-.0940	-.0990	.0560	.0020
120.0000	-.0070	-.0840	-.1040	-.0910	-.0970				-.0130	-.0361
135.0000							-.0850	-.0890	-.0600	-.0710
150.0000	-.0750	-.0895	-.1060	-.1040	-.0950		-.0890		-.0720	-.0560
165.0000	-.0850	-.0790	-.1080	-.1060	-.0990		-.0980	-.0950	-.1220	
180.0000	-.0990	-.0940	-.0870	-.0840	-.1040					

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0B20) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 10.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4430		-.0710
40.0000	.5530	.5480			-.0450
70.0000	-.0650	-.0640	-.0840		
90.0000	-.1040	-.1040	-.1020		
105.0000	-.1040	-.1060	-.1020		
110.0000				-.0110	
120.0000	-.0680	-.0770	-.0750	-.0110	
135.0000	-.0650	-.1050	-.0980		
150.0000	-.1020	-.1070	-.0980		
165.0000	-.0820	-.0910	-.0970		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.130

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3330	1.7440	1.3380	.6400	.5800	.6080			.6140	
20.0000			1.3180	.6850	.5840	.6060			.6210	
40.0000			1.1580	.6860	.4980	.5240			.5090	
55.0000			.9310	.4810	.2890	.0900			.0160	
70.0000			.6700	.2320	.0910	.0390			0340	
90.0000		.5200	.4060	.0830	.0520	.0330			.0290	
120.0000			.1430	-.0220	-.0240	-.0210			-.0190	
142.0000										-.0540
150.0000			.0530	-.0590	-.0290	-.0270			.0770	
157.0000								.1140		
162.0000									.0890	
169.0000									.0490	
172.0000							-.0140			
180.0000	1.3330	.3670	.0130	-.0480	-.0290	-.0270			.0830	

AMES 87-707 OA12 OEA ORBITER FUSELAGE (R80520) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8493 INCHES YMRP = .0000 INCHES

BREF = 39.8493 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.130

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6260	.6230	.6130	.5800	.5400	.5410				
20.0000	.6210									
40.0000	.4000	.3050	.3570	.4340	.5420	.5860	.5800		.5705	.5670
55.0000	.0090									
70.0000	.0290	-.0050	-.0290	-.0420	-.1090		-.0690	-.1110	-.0800	-.0780
90.0000	.0370	-.0190	-.0360	-.0500	-.0650		-.1180	-.1190	-.1060	-.1070
105.0000									-.1100	-.1070
120.0000	-.0320	-.0920	-.1080	-.1010	-.0990		-.1050	-.1100	-.1010	-.1060
135.0000									-.0410	-.0730
150.0000	-.0730	-.0990	-.1090	-.1090	-.1000		-.1000	-.1000	-.0850	-.0720
165.0000	-.0880	-.0840	-.1040	-.1130	-.1070		-.0970		-.0750	-.0530
180.0000	-.0890	-.0870	-.0760	-.0710	-.1060		-.0940	-.0930	-.0800	

MACH (2) = 3.501 BETA (3) = -.130

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4340		-.0730
40.0000	.5260	.5360			-.0450
70.0000	-.0820	-.0770	-.0830		
90.0000	-.1130	-.1190	-.1010		
105.0000	-.1150	-.1210	-.1010		
110.0000				-.0140	
120.0000	-.1220	-.1220	-.1000	-.0410	
135.0000	-.1220	-.1230	-.1010		
150.0000	-.1210	-.1220	-.1010		
165.0000	-.0870	-.0970	-.0910		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB1920) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 0.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.170

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1733	.1958
PHI										
.0000	1.3190	1.7240	1.3200	.6330	.5740	.6010			.6190	
20.0000			1.2590	.6480	.5620	.5890			.6040	
40.0000			1.0630	.6500	.4380	.4590			.4370	
55.0000			.8300	.4100	.2270	.0470			-.0150	
70.0000			.5780	.1740	.0550	.0000			-.0250	
90.0000		.8370	.3350	.0460	.0220	.0040			.0120	
120.0000			.1090	-.0370	-.0290	-.0230			-.0240	
142.0000										-.0230
150.0000			.0390	-.0600	-.0310	-.0270			.0730	
157.0000								.0120		
162.0000									.0420	
169.0000									.0520	
172.0000							-.0140			
180.0000	1.3190	.3610	.0100	-.0570	-.0310	-.0240			.1350	

MACH (2) = 3.501 BETA (4) = 3.170

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6190	.6200	.6110	.5760	.5460	.5470				
21.0000	.6020									
40.0000	.3300	.2390	.2870	.3710	.4940	.5420	.5500		.5430	.5380
55.0000	-.0240									
70.0000	-.0120	-.0370	-.0500	-.0920	-.1130		-.0680	-.1090	-.0890	-.0770
90.0000	.0040	-.0400	-.0590	-.0710	-.0590		-.1090	-.1100	-.1040	-.0930
103.0000									-.1050	-.1040
120.0000	-.0480	-.0930	-.1100	-.1040	-.1050		-.1130	-.1110	-.1050	-.1050
135.0000									-.1060	-.1050
150.0000	-.0770	-.0950	-.1110	-.1100	-.1030		-.1030	-.1070	-.1040	-.0930
165.0000	-.0790	-.0790	-.0970	-.1100	-.1100		-.1040		-.0990	-.0690
180.0000	-.0960	-.0920	-.0840	-.0830	-.1010		-.0970	-.0940	-.084	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 0412 02A ORBITER FUSELAGE (RBQB20) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.170

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4310		-.0720
40.0000	.5140	.5290			-.0500
70.0000	-.0800	-.0750	-.0340		
90.0000	-.1150	-.1170	-.1020		
105.0000	-.1160	-.1200	-.1030		
110.0000				-.0190	
120.0000	-.1170	-.1210	-.1000	-.0200	
135.0000	-.1160	-.1200	-.1010		
150.0000	-.1150	-.1180	-.1000		
165.0000	-.1150	-.0990	-.0950		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.470

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.2830	1.6740	... 320	.6170	.5600	.5930			.5990	
20.0000			1.1880	.6200	.5320	.5640			.5800	
40.0000			.9540	.6210	.3790	.3900			.3690	
55.0000			.7320	.3600	.1750	.0120			-.0430	
70.0000			.4880	.1250	.0250	-.0270			-.0360	
90.0000		.7520	.2750	.0160	-.0030	-.0200			-.0250	
120.0000			.0810	-.0500	-.0350	-.0320			-.0320	
142.0000										-.0580
150.0000			.0260	-.0660	-.0350	-.0300			.0260	
157.0000								-.0100		
162.0000									.0590	
169.0000									.0980	
172.0000							-.0180			
180.0000	1.2830	.3530	.0070	-.0650	-.0350	-.0370			.1400	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB20) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.470

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8243
PHI										
.0000	.6140	.6110	.6060	.5770	.5550	.5570				
21.0000	.5870									
40.0000	.2550	.1760	.2250	.2990	.4330	.4910	.5170		.5190	
55.0000	-.0500									
70.0000	-.0420	-.0570	-.0690	-.1090	-.1100		-.0660	-.1060	-.0800	
90.0000	-.0240	-.0610	-.0760	-.0810	-.1120		-.1070	-.1110	-.1040	
105.0000									-.1080	
120.0000	-.0590	-.0940	-.1100	-.1070	-.1020		-.1110	-.1110	-.1090	
135.0000									-.0710	
150.0000	-.0680	-.0890	-.1100	-.1080	-.1020		-.1090		-.0910	
165.0000	-.0900	-.0790	-.0910	-.1000	-.1060		-.1040		-.0930	
180.0000	-.1010	-.0970	-.0940	-.0920	-.1000		-.0910	-.0940	-.0860	

MACH (2) = 3.501 BETA (5) = 6.470

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4360		-.0740
40.0000	.4880	.5220			-.0500
70.0000	-.0720	-.0660	-.0800		
90.0000	-.1070	-.1100	-.1020		
105.0000	-.1090	-.1130	-.1030		
110.0000				-.0620	
120.0000	-.1060	-.1140	-.1040	-.0620	
135.0000	-.1070	-.1160	-.1020		
150.0000	-.1000	-.1030	-.1030		
165.0000	-.0940	-.1030	-.0970		

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB21) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.2860	1.6810	1.3020	.6360	.6450	.6380			.6370	
20.0000			1.3560	.7460	.6730	.6580			.6660	
40.0000			1.2840	.7630	.6650	.6430			.6270	
55.0000			1.0900	.5730	.4520	.1710			.0770	
70.0000			.8490	.3570	.1760	.1580			.1690	
90.0000		1.0380	.5350	.1430	.1220	.1010			.1080	
120.0000			.1770	-.0440	-.0360	-.0590			.0160	
142.0000										-.0910
150.0000			.0340	-.1120	-.0810	-.0530			.1050	
157.0000								.1340		
162.0000									.1920	
169.0000									.1510	
172.0000							.0920			
180.0000	1.2860	.3430	-.0510	-.0940	-.0840	-.0660			.2120	

MACH (1) = 2.498 BETA (1) = -6.470

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6420	.6310	.6100	.5820	.5700	.5790				
20.0000	.6530									
40.0000	.5130	.4330	.4890	.5710	.6410	.6520	.6270		.6930	.6720
55.0000	.0990									
70.0000	.1770	.0730	.0470	.0250	-.1680		-.1650	-.2050	-.1790	-.1720
90.0000	.1160	-.0050	-.0140	-.0160	-.0260		-.1810	-.2160	-.2110	-.2090
105.0000									-.1870	-.1840
120.0000	.0260	-.1520	-.1690	-.1660	-.1590		-.1190	-.1220	.1370	-.0460
136.0000									.0410	-.0480
150.0000	-.1330	-.1830	-.1990	-.1800	-.1560		-.1130	-.1090	-.0230	-.0630
165.0000	-.1470	-.1340	-.1870	-.1760	-.1700		-.1340		-.0970	-.0540
180.0000	-.1940	-.1850	-.1640	-.1480	-.1720		-.1520	-.1440	-.1350	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-7D7 OA12 OBA ORBITER FUSELAGE (RBQB21) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8495 INCHES YMRP = .0000 INCHES

BREF = 39.8495 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

X/LB	.6848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5330		-.1530
40.0000	.6190	.4210			-.1190
75.0000	-.1480	-.1500	-.1430		
90.0000	-.1620	-.1680	-.1690		
105.0000	-.1630	-.1410	-.1330		
110.0000				-.0880	
120.0000	-.0970	-.1100	-.1070	-.0860	
135.0000	-.1240	-.1680	-.1370		
150.0000	-.1600	-.1520	-.1430		
165.0000	-.0790	-.1120	-.1410		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.310

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.2970	1.6890	1.3070	.6400	.6410	.6350			.6310	
20.0000			1.3210	.7160	.6560	.6430			.6470	
40.0000			1.2980	.6970	.6040	.5850			.5640	
55.0000			1.0010	.4930	.3760	.1060			.0170	
70.0000			.7540	.2800	.1190	.0860			.0920	
90.0000		.9730	.4600	.0890	.0710	.0570			.0570	
120.0000			.1420	-.0660	-.0600	-.0410			-.0300	
142.5000										-.0910
150.0000			.0230	-.1060	-.0730	-.0450			.1350	
157.0000								.0860		
162.0000									.1860	
169.0000									.1600	
172.0000							.1540			
180.0000	1.2970	.3470	-.0470	-.0890	-.0790	-.0340			.2050	

AMES 87-707 DA12 O2A ORBITER FUSELAGE (RB0221) (16 MAY 73)

REFERENCE DATA

SREF = 0.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .4000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.310

X/LB	.2259	.2711	.3200	.3953	.5127	.5973	.6626	.7380	.7869	.8283
PHI										
.0000	.6370	.6300	.6060	.5750	.5550	.5920				
20.0000	.6380									
40.0000	.4420	.3530	.4210	.5160	.5970	.6150	.6040		.6490	.6470
55.0000	.0220									
70.0000	.0360	.0210	-.0340	-.0630	-.2030		-.1710	-.2110	-.1810	-.1710
90.0000	.0640	-.0370	-.0370	-.0440	-.0870		-.2150	-.2220	-.2140	-.2050
105.0000									-.2000	-.2550
120.0000	-.0030	-.1600	-.1840	-.1770	-.1500		-.1360	-.1420	-.0970	-.1390
135.0000									.0140	-.0680
150.0000	-.1310	-.1750	-.1910	-.1850	-.1580		-.1240	-.1190	-.0310	-.0300
165.0000	-.1410	-.1330	-.1800	-.1780	-.1830		-.1470		-.1030	.0420
180.0000	-.1810	-.1630	-.1480	-.1270	-.1620		-.1520	-.1520	-.1440	

MACH (1) = 2.498 BETA (2) = -3.310

X/LB	.8849	.9252	.9639	1.0015	1.0392
PHI					
.0000			.5370		-.1530
40.0000	.6010	.4090			-.1190
70.0000	-.1570	-.1550	-.1560		
90.0000	-.1970	-.1980	-.1720		
105.0000	-.1970	-.1930	-.1910		
110.0000				-.1040	
120.0000	-.1350	-.1310	-.1460	-.1080	
135.0000	-.1350	-.1620	-.1300		
150.0000	-.1630	-.1550	-.1480		
165.0000	-.0540	-.0840	-.1220		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (PB3821) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1.ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.130

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3030	1.6940	1.3070	.6370	.6380	.6340			.6350	
20.0000			1.2830	.6660	.6390	.6310			.6360	
40.0000			1.1310	.6320	.5430	.5230			.4930	
55.0000			.9100	.4080	.3020	.0460			-.0300	
70.0000			.6560	.2070	.0680	.0170			.0220	
90.0000		.9040	.3870	.0380	.0280	.0120			.0140	
120.0000			.1010	-.0900	-.0720	-.0440			-.0390	
142.0000										.0170
150.0000			.0040	-.0910	-.0800	-.0580			.1520	
157.0000								.2713		
162.0000									.1420	
169.0000									.0630	
172.0000							.0170			
180.0000	1.3030	.3470	-.0470	-.0860	-.0800	-.0260			.1190	

MACH (1) = 2.498 BETA (5) = -.130

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6340	.6220	.6120	.5700	.5460	.5780				
20.0000	.6240									
40.0000	.3650	.2780	.3410	.4440	.5540	.5910	.5780		.6270	.6220
55.0000	-.0440									
70.0000	.0190	-.0330	-.0720	-.1190	-.2140		-.1680	-.1970	-.1710	-.1700
90.0000	.0240	-.0650	-.0740	-.0840	-.1230		-.2070	-.2040	-.1960	-.1830
105.0000									-.1970	-.1980
120.0000	-.0430	-.1710	-.1940	-.1870	-.1640		-.1490	-.1920	-.1890	-.2110
135.0000									-.0250	-.1810
150.0000	-.1400	-.1760	-.1970	-.1940	-.1650		-.1520	-.1520	-.0860	-.0540
165.0000	-.1610	-.1330	-.1710	-.1880	-.2030		-.1650		-.1200	-.0500
180.0000	-.1570	-.1460	-.1170	-.1040	-.1490		-.1360	-.1400	-.1300	

AMES 67-707 OA12 02A ORBITER FUSELAGE (RB3B21) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.130

X/LB	.8948	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5420		-.1650
40.0000	.5820	.4000			-.1640
70.0000	-.1630	-.1660	-.1780		
90.0000	-.2020	-.2010	-.1850		
105.0000	-.2030	-.2020	-.1820		
110.0000				-.1630	
120.4000	-.2020	-.2010	-.1800	-.1630	
135.0000	-.2030	-.2030	-.1800		
150.0000	-.1720	-.1820	-.1830		
165.0000	-.1010	-.1360	-.1620		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3000	1.6850	1.2960	.6360	.6360	.6310			.6310	
20.0000			1.2340	.6520	.6200	.6130			.6190	
40.0000			1.0450	.5670	.4800	.4590			.4240	
55.0000			.8230	.3380	.2320	-.0050			-.0340	
70.0000			.5650	.1460	.0190	-.0330			-.0360	
90.0000		.8310	.3170	-.0030	-.0160	-.0230			-.0200	
120.0000			.0690	-.1070	-.0800	-.0620			-.0490	
142.0000										-.0980
150.0000			-.0100	-.0940	-.0820	-.0490			.1270	
157.0000								.0540		
162.0000									.0730	
165.0000									.0600	
172.0000							.0150			
180.0000	1.3000	.3480	-.0460	-.0890	-.0850	-.0390			.2040	

DATE 27 SEP 73 TABULATED PRESSURE DATA - OM12C

AMES 87-707 OM12 OBA ORBITER FUSELAGE (RB3B21) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 33.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = -25.000 RUDLR = 4.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.2259	.2711	.3240	.3953	.5120	.5873	.6626	.7380	.7865	.8283
PHI										
.0000	.6350	.6270	.6140	.5700	.5540	.5740				
25.0000	.6140									
40.0000	.3960	.2030	.2620	.3780	.5170	.5590	.5560		.5990	.5
55.0000	-.1930									
70.0000	-.1440	-.0870	-.1100	-.1840	-.2220		-.1740	-.1960	-.1730	-.
90.0000	-.0150	-.0870	-.1010	-.1290	-.1540		-.2110	-.2050	-.1360	-.1
105.0000									-.1960	-.1
120.0000	-.0960	-.1790	-.1960	-.1830	-.1750		-.1990	-.2	-.1970	-.1
135.0000									-.1290	-
150.0000	-.1460	-.1670	-.1840	-.1960	-.1810		-.1780	-.1	-.1690	-.
165.0000	-.1510	-.1330	-.1580	-.1650	-.1960		-.194		-.1660	-.1
180.0000	-.1800	-.1580	-.1430	-.1290	-.1630		-.15	-.1570	-.1420	

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.5290		-.1530
40.0000	.5590	.3950			-.1230
70.0000	-.1680	-.1700	-.1840		
90.0000	-.2070	-.2050	-.1910		
105.0000	-.2080	-.2090	-.1910		
110.0000				-.0970	
120.0000	-.2070	-.2090	-.1860	-.0950	
135.0000	-.2080	-.2110	-.1830		
150.0000	-.1980	-.2140	-.1830		
165.0000	-.1690	-.1960	-.1810		

AMES 67-7X7 0412 OEA ORBITER FUSELAGE (RB0B21) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8430 INCHES YMRP = .0000 INCHES

MREF = 39.8430 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.250

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.2690	1.6660	1.2810	.6340	.6310	.6300			.6310	
20.0000			1.1860	.6180	.5960	.5970			.6080	
40.0000			.9600	.4980	.4210	.3950			.3560	
55.0000			.7270	.2730	.1780	-.0500			-.1200	
70.0000			.4790	.0870	-.0200	-.0790			-.0870	
90.0000		.7580	.2490	-.0450	-.0490	-.0570			-.0570	
120.0000			.0340	-.1250	-.0860	-.0740			-.0570	
142.0000										-.1090
150.0000			-.0280	-.1040	-.0880	-.0530			.0840	
157.0000								.0360		
162.0000									.0920	
169.0000									.1190	
172.0000							.1230			
180.0000	1.2890	.3420	-.0510	-.1040	-.0860	-.0510			.1900	

MACH (1) = 2.498 BETA (5) = 6.250

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8223
PHI										
.0000	.6320	.6290	.6130	.5760	.5590	.5710				
20.0000	.6000									
40.0000	.2260	.1390	.1970	.3050	.4760	.5280	.5390		.5630	.5730
55.0000	-.1370									
70.0000	-.0960	-.1240	-.1420	-.2050	-.2080		-.1690	-.2020	-.1780	-.1730
90.0000	-.0460	-.1130	-.1330	-.1330	-.2190		-.2060	-.2030	-.2050	-.1980
115.0000									-.2060	-.2030
130.0000	-.1130	-.1740	-.2160	-.1870	-.1910		-.2070	-.2090	-.2040	-.2030
135.0000									-.1660	-.1910
150.0000	-.1240	-.1620	-.1780	-.1850	-.1860		-.2070	-.2030	-.1860	-.1630
165.0000	-.1650	-.1300	-.1490	-.1440	-.1870		-.2050		-.1940	-.1450
180.0000	-.1540	-.1620	-.1650	-.1470	-.1710		-.1590	-.1520	-.1330	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQB21) (16 MAY 73)

AMES 87-707 OA12 02A ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = -20.000 FLAP = .000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.250

X/LB	.0340	.9262	.9539	1.0015	1.0392
PHI					
.0000			.5350		-.1580
40.0400	.5530	.3990			-.1270
70.0000	-.1680	-.1730	-.1880		
90.0000	-.1930	-.2060	-.1970		
105.0000	-.1820	-.2070	-.1970		
110.0000				-.1010	
120.0000	-.2000	-.2050	-.1930	-.1050	
135.0000	-.2010	-.2040	-.1890		
150.0000	-.1790	-.1910	-.1870		
165.0000	-.1740	-.1780	-.1790		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (1) = -6.700

X/LB	.0000	.0075	.0198	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.2790	1.6860	1.2950	.6190	.5630	.5330			.6020	
20.0000			1.3520	.7200	.5970	.6180			.6350	
40.0000			1.2860	.7430	.6090	.6330			.6330	
55.0000			1.7940	.5650	.4190	.1990			.1200	
70.0000			.3460	.3540	.1820	.1400			.1480	
90.0000		1.0370	.5380	.1650	.1250	.1050			.1090	
125.0000			.2050	.0120	.0060	-.0200			.0500	
142.0000										-.0480
150.0000			.0790	-.0430	-.0360	-.0270			.0660	
157.0000								.1040		
162.0000									.1270	
169.0000									.1310	
172.0000							.0030			
180.0000	1.2790	.3510	.0100	-.0610	-.0370	-.0390			.1480	

AMES 87-707 OA12 02A ORBITER FUSELAGE (R90B21) (16 MAY 73)

REFERENCE DATA

SREF = 2.4217 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.6490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (1) = -6.700

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6160	.6140	.6060	.5800	.5530	.5530				
20.0000	.6300									
40.0000	.5320	.4450	.4940	.5590	.6430	.6550	.6340		.6190	.6020
55.0000	.1230									
70.0000	.1470	.0790	.0500	.0360	-.0790		-.0620	-.1090	-.0760	-.0730
90.0000	.1200	.0370	.0170	.0180	.0060		-.0700	-.1090	-.1040	-.1050
105.0000									-.0870	-.0820
120.0000	.0250	-.0720	-.0930	-.0800	-.0900		-.0780	-.0830	.2340	.0920
135.0000									-.0010	-.0680
150.0000	-.0680	-.0920	-.1010	-.0980	-.0870		-.0810	-.0830	-.0640	-.0790
165.0000	-.0790	-.0820	-.1070	-.1000	-.0910		-.0830		-.0720	-.0570
180.0000	-.1000	-.1000	-.0960	-.0910	-.0980		-.0880	-.0910	-.0850	

MACH (2) = 3.503 BETA (1) = -6.700

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4450		-.0760
40.0000	.5610	.4030			-.0560
70.0000	-.0590	-.0560	-.0640		
90.0000	-.0690	-.0900	-.0840		
105.0000	-.0680	-.0850	-.0770		
110.0000				-.0290	
120.0000	-.0490	-.0600	-.0580	-.0540	
135.0000	-.0490	-.0980	-.0950		
150.0000	-.1000	-.1030	-.0990		
165.0000	-.0860	-.0900	-.0950		

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0921) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 4 .000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (2) = -3.410

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3210	1.7330	1.3310	.6360	.5780	.6040			.6190	
20.0000			1.3500	.7100	.5970	.6160			.6300	
40.0000			1.2330	.6940	.5610	.5840			.5780	
55.0000			1.0200	.4940	.3550	.1440			.0680	
70.0000			.7600	.2910	.1370	.0890			.0890	
90.0000		.9850	.4730	.1240	.0890	.0700			.0570	
120.0000			.1760	-.0020	-.0110	-.0290			-.0010	
142.0000										-.0
150.0000			.0710	-.0500	-.0290	-.0200			.0760	
157.0000								.0610		
162.0000									.1310	
169.0000									.1300	
172.0000							-.0910			
190.0000	1.3210	.3640	.0150	-.0500	-.0300	-.0260			.1380	

MACH (2) = 3.503 BETA (2) = -3.410

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6210	.6190	.6100	.5810	.5490	.5500				
20.0000	.6280									
40.0000	.4680	.3780	.4260	.5020	.6000	.6190	.6070		.5920	.5840
55.0000	.0660									
70.0000	.0880	.0340	.0080	-.0150	-.1040		-.0680	-.1130	-.0770	-.0740
90.0000	.0780	.0090	-.0070	-.0120	-.0350		-.1030	-.1170	-.1090	-.1050
105.0000									-.1070	-.0910
120.0000	-.0050	-.0800	-.0980	-.0880	-.0920		-.0910	-.0920	.0700	.0100
135.0000									-.0110	-.0350
150.0000	-.0710	-.0940	-.1020	-.1010	-.0910		-.0830	-.0850	-.0590	-.0680
165.0000	-.0830	-.0760	-.1050	-.1010	-.0970		-.0840		-.0730	-.0500
180.0000	-.0950	-.0910	-.0830	-.0810	-.1000		-.0960	-.0930	-.0820	

AMES 07-707 OA12 O2A ORBITER FUSELAGE (PB0921) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

DREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (2) = -3.410

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4450		-.0790
40.0000	.3510	.3970			-.0580
70.0000	-.0630	-.0630	-.0730		
90.0000	-.0880	-.1010	-.0870		
105.0000	-.0930	-.1030	-.1000		
110.0000				-.0290	
120.0000	-.0580	-.0630	-.0660	-.0310	
135.0000	-.0580	-.0990	-.0970		
150.0000	-.0980	-.1020	-.0970		
165.0000	-.0800	-.0890	-.0950		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.130

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.3330	1.7430	1.3380	.6380	.5800	.6070			.6150	
20.0000			1.3170	.6840	.5800	.6060			.6220	
40.0000			1.1580	.6320	.5000	.5240			.5110	
55.0000			.9339	.4630	.2900	.0910			.0240	
70.0000			.6710	.2310	.0950	.0380			.0390	
90.0000		.9220	.4050	.0850	.0560	.0350			.0330	
120.0000			.1440	-.0200	-.0250	-.0190			-.0150	
142.0000										-.0510
150.0000			.0580	-.0550	-.0270	-.0220			.0810	
157.5000								.1130		
162.0000									.0980	
169.0000									.0520	
172.5000							-.0140			
180.0000	1.3330	.3650	.0150	-.0450	-.0260	-.0240			.0860	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB21) (16 MAY 73)

REFERENCE DATA

BREF = 2.4210 SQ.FT. XMRP = 32.5000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.130

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8333
PHI										
.0000	.6260	.6220	.6130	.5800	.5390	.5420				
20.0000	.6230									
40.0000	.4020	.3080	.3580	.4340	.5470	.5860	.5800		.5710	
55.0000	.0150									
70.0000	.0330	-.0040	-.0260	-.0400	-.1090		-.0660	-.1080	-.0750	-.
90.0000	.0400	-.0140	-.0340	-.0430	-.0640		-.1130	-.1110	-.1010	
105.0000									-.1030	-.
120.0000	-.0290	-.0840	-.1040	-.0960	-.0920		-.0980	-.1010	-.0960	-.
135.0000									-.0890	-.
150.0000	-.0700	-.0950	-.1060	-.1070	-.0950		-.0930	.0930	-.0810	-.
165.0000	-.0850	-.0780	-.1000	-.1100	-.1010		-.0940		-.0710	-.
180.0000	-.0820	-.0820	-.0740	-.0700	-.0980		-.0900	-.0860	-.0770	

MACH (2) = 3.503 BETA (3) = -.130

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4460		-.0760
40.0000	.5400	.3870			-.0540
70.0000	-.0630	-.0690	-.0750		
90.0000	-.0730	-.1010	-.0940		
105.0000	-.1010	-.1020	-.0930		
110.0000				-.0290	
120.0000	-.1020	-.1020	-.0920	-.0360	
135.0000	-.1030	-.1030	-.0920		
150.0000	-.1030	-.1020	-.0950		
165.0000	-.0670	-.0790	-.0860		

ANFS 87-707 0A12 02A ORBITER FUSELAGE (RB0B21) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.9490 INCHES YMRP = .0000 INCHES

BREF = 39.6490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.170

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1956
PHI										
.0000	1.3200	1.7280	1.3220	.6340	.5760	.6020			.6110	
20.0000			1.2630	.6510	.5610	.5900			.6030	
40.0000			1.0640	.5660	.4400	.4590			.4370	
55.0000			.8320	.3660	.2290	.0450			-.0120	
70.0000			.5800	.1720	.0560	.0030			-.0030	
90.0000		.8390	.3370	.0470	.0230	.0060			.0030	
120.0000			.1130	-.0360	-.0290	-.0240			-.0230	
142.0000										-.0490
150.0000			.0420	-.0580	-.0290	-.0270			.0750	
157.0000								.0140		
162.0000									.0430	
169.0000									.0510	
172.0000							-.0140			
180.0000	1.3200	.3650	.0120	-.0520	-.0300	-.0250			.1380	

MACH (2) = 3.503 BETA (4) = 3.170

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6200	.6190	.6120	.5780	.5480	.5490				
20.0000	.6040									
40.0000	.3300	.2420	.2880	.3700	.4950	.5450	.5530		.5450	.5420
55.0000	-.0230									
70.0000	-.0110	-.0350	-.0520	-.0890	-.1090		-.0660	-.1070	-.0780	-.0760
90.0000	.0070	-.0400	-.0570	-.0680	-.0530		-.1090	-.1110	-.1040	-.1010
105.0000									-.1060	-.1010
121.0000	-.0460	-.0930	-.1090	-.1030	-.1010		-.1120	-.1120	-.1060	-.1040
135.0000									-.1040	-.1070
150.0000	-.0750	-.0910	-.1060	-.1060	-.1000		-.1010	-.1020	-.0890	-.0850
165.0000	-.0780	-.0750	-.0930	-.1020	-.1080		-.1030		-.0800	-.0620
180.0000	-.0950	-.0900	-.0790	-.0800	-.1020		-.0960	-.0930	-.0830	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0821) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 4[illegible].000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.170

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4330		-.0780
40.0000	.5140	.3660			-.0590
70.0000	-.0790	-.0840	-.0810		
90.0000	-.0880	-.1190	-.0970		
105.0000	-.1160	-.1180	-.0990		
110.0000				-.0350	
120.0000	-.1210	-.1200	-.0980	-.0340	
135.0000	-.1200	-.1190	-.0960		
150.0000	-.1190	-.1170	-.0990		
165.0000	-.0850	-.0950	-.0880		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (5) = 6.470

LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.2810	1.6730	1.2780	.6160	.5590	.5900			.5980	
20.0000			1.1880	.6070	.5270	.5600			.5800	
40.0000			.9630	.6070	.3780	.3900			.3710	
55.0000			.7290	.3370	.1740	.0120			-.0430	
70.0000			.4930	.1230	.0220	-.0390			-.0350	
90.0000		.7500	.2750	.0150	-.0050	-.0230			-.0250	
120.0000			.0830	-.0500	-.0360	-.0340			-.0320	
142.0000										-.0590
150.0000			.0260	-.0640	-.0370	-.0330			.0250	
157.0000								-.0110		
162.0000									.0590	
169.0000									.0990	
172.0000							-.0190			
180.0000	1.2810	.3510	.0080	-.0640	-.0370	-.0370			.1400	

AMES 67-20T OA12 02A ORBITER FUSELAGE (RB0021) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3100 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000

ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (5) = 6.470

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.6100	.6090	.6050	.5750	.5540	.5550				
20.0000	.5840									
40.0000	.2630	.1790	.2260	.2990	.4320	.4920	.5150		.5110	.5070
55.0000	-.0530									
70.0000	-.0430	-.0550	-.0670	-.1090	-.1080		-.0670	-.1090	-.0790	-.0770
90.0000	-.0220	-.0580	-.0750	-.0830	-.1140		-.1090	-.1120	-.1090	-.0890
105.0000									-.1080	-.1040
120.0000	-.0570	-.0940	-.1100	-.1040	-.1020		-.1130	-.1140	-.1080	-.1040
135.0000									-.0670	-.1040
150.0000	-.0580	-.0870	-.1080	-.1100	-.1040		-.1090	-.1110	-.0880	-.0510
165.0000	-.0990	-.0790	-.0930	-.1010	-.1013		-.1010		-.0910	-.0770
180.0000	-.0970	-.0930	-.0940	-.0930	-.1010		-.0990	-.0940	-.0870	

MACH (2) = 3.503 BETA (5) = 6.470

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.4290		-.0820
40.0000	.4830	.3540			-.0630
70.0000	-.0790	-.0840	-.0810		
90.0000	-.0890	-.1170	-.1010		
105.0000	-.1120	-.1200	-.1020		
110.0000				-.0760	
120.0000	-.1190	-.1190	-.1010	-.0730	
135.0000	-.1140	-.1140	-.1010		
150.0000	-.1090	-.1170	-.1040		
165.0000	-.1080	-.1170	-.1030		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQ822) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.6480 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDLR = [illegible]

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -9.630

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.4790	1.5290	1.0110	.3570	.3400	.3400			.3360	
20.0000			1.1160	.4790	.3760	.3650			.3700	
40.0000			1.1900	.5900	.4930	.4370			.4380	
55.0000			1.1280	.5900	.4440	.2780			.2660	
70.0000			.9910	.4250	.2630	.2570			.2560	
90.0000		1.2960	.7540	.2560	.2120	.1960			.1960	
125.0000			.4020	.0820	.0840	.0770			.2320	
142.0000										[illegible]
150.0000			.2180	-.0150	-.0050	.0070			.3220	
157.0000								.3580		
162.0000									.3610	
169.0000									.2810	
172.0000							.3170			
180.0000	1.4790	.5740	.0740	-.0620	-.0490	.0070			.3310	

MACH (1) = 2.498 BETA (1) = -9.630

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3420	.3430	.3370	.3330	.3140	.3090				
20.0000	.3640									
40.0000	.4020	.3630	.3980	.3820	.4140	.4090	.3840		.3880	.3520
55.0000	.2860									
70.0000	.2510	.1200	.0930	.0860	.0750		-.0820	-.1340	-.1440	-.1600
90.0000	.2130	.0900	.0360	.0330	.0230		.0200	-.0230	-.0490	-.0190
105.0000									.0030	.1150
120.0000	.1310	-.1030	-.1170	-.1190	-.1300		-.1220	-.1160	.5860	.2510
135.0000									-.0340	-.0250
150.0000	-.0720	-.1130	-.1170	-.1440	-.1550		-.1280	-.1110	-.0340	-.0710
165.0000	-.0960	-.0480	-.1000	-.1320	-.1460		-.1240		-.0860	.0110
180.0000	-.1710	-.1870	-.1890	-.1490	-.1310		-.1180	-.1150	-.1060	

DATE [illegible] TABULATED PRESSURE DATA - OA12C

AMES 87-7X7 OA12 O2A ORBITER FUSELAGE (RB0822) (16 MAY 73)

REFERENCE DATA

PARAMETRIC DATA

SREF = [illegible] SQ.FT. XMRP = 32.3040 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDFLP = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -9.630

X/LB	.8648	.9252	.9639	1.0015	1.0392
PHI					
.0000			.2280		-.1340
45.0000	.3100	.2550			-.0960
70.0000	-.1350	-.1370	-.1350		
90.0000	-.0160	-.0250	-.0500		
105.0000	.0670	-.0210	-.0550		
115.0000				-.0300	
120.0000	.0210	-.0290	-.0900	-.0070	
135.0000	-.1050	-.1340	-.1270		
150.0000	-.1680	-.1650	-.1590		
165.0000	-.0950	-.1290	-.1520		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -5.610

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5120	1.5690	1.0330	.3630	.3380	.3460			.3390	
25.0000			1.0970	.4570	.3630	.3590			.3630	
40.0000			1.1140	.5270	.4280	.3860			.3870	
55.0000			1.0230	.4680	.3530	.1690			.1610	
70.0000			.8700	.3190	.1790	.1740			.1710	
90.0000		1.2100	.6410	.1740	.1350	.1290			.1260	
120.0000			.3340	.0380	.0370	.0440			.1690	
142.0000										.0080
150.0000			.1880	-.0350	-.0260	.0370			.3190	
157.5000								.4030		
162.5000									.3470	
165.0000									.2810	
172.5000							.4140			
180.0000	1.5120	.5860	.0750	-.0680	-.0480	.0200			.3960	

AMES 87-707 OA12 OBA ORBITER FUSELAGE (FB9822) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3070 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0500 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -5.610

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3410	.3430	.3340	.3170	.3000	.2970				
20.0000	.3550									
40.0000	.3330	.2870	.3220	.3420	.3730	.3740	.3500		.3700	.3
55.0000	.1810									
70.0000	.1670	.0590	.0350	.0230	-.0070		-.1220	-.1690	-.1720	-.
90.0000	.1450	.0330	-.0120	-.0210	-.0280		-.0400	-.0920	-.1240	-.
105.0000									-.0360	.0
120.0000	.0730	-.1190	-.1380	-.1420	-.1570		-.1410	-.1320	.4540	.1
135.0000									.0110	-
150.0000	-.0890	-.1280	-.1240	-.1650	-.1550		-.1300	-.1090	-.0080	-.
165.0000	-.1210	-.0750	-.0980	-.1340	-.1610		-.1290		-.0610	.0
180.0000	-.1600	-.1580	-.1760	-.1360	-.0960		-.1210	-.1170	-.1060	

MACH (1) = 2.498 BETA (2) = -5.610

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2170		-.1020
40.0000	.3040	.2450			-.0970
70.0000	-.1730	-.1710	-.1650		
90.0000	-.1120	-.1100	-.0990		
105.0000	-.0460	-.0990	-.1040		
110.0000				-.1020	
120.0000	-.0440	-.0890	-.0930	-.1010	
135.0000	-.1400	-.1390	-.1130		
150.0000	-.1230	-.1280	-.1270		
165.0000	-.0770	-.1270	-.1520		

ANAL 87-747 CA12 CBA ORBITER FUSELAGE (RB3822) (16 MAY 73)

REFERENCE DATA

SREF = 2.421E 03.FT. XMRP = 1313.00 INCHES

LREF = 39.8495 INCHES YMRP = .0000 INCHES

BREF = 39.8495 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = .430

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1906	.1581	.1732	.1958
PHI										
.0000	1.5240	1.5900	1.0300	.3590	.3360	.3390			.3350	
20.0000			1.0420	.4150	.3370	.3410			.3410	
40.0000			.9840	.4250	.3300	.3190			.2980	
55.0000			.2600	.3600	.2290	.0450			.0230	
70.0000			.6890	.1900	.0760	.0660			.0670	
90.0000		1.0700	.4840	.0720	.0410	.0410			.0490	
120.0000			.2390	-.0200	-.0200	.0460			.0740	-.0410
142.0000										
150.0000			.1400	-.0610	-.0310	.0390		.3170	.2790	
157.0000										
162.0000									.2920	
169.0000									.2900	
172.0000							.2430			
180.0000	1.5240	.5900	.0730	-.0710	-.0290	.0490			.3740	

MACH (1) = 2.498 BETA (3) = .430

X/LD	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7859	.8283
PHI										
.0000	.3380	.3380	.3290	.3020	.2860	.3040				
21.0000	.3320									
40.0000	.2220	.1670	.2000	.2560	.3100	.3280	.3140		.3250	.3190
55.0000	.0180									
70.0000	.0830	-.0140	-.0360	-.0500	-.1320		-.1650	-.1900	-.1940	-.1860
90.0000	.0690	-.0300	-.0710	-.0810	-.0940		-.1370	-.1090	-.1980	-.1960
120.0000									-.0950	-.1180
142.0000	.0010	-.1230	-.1530	-.1650	-.1510		-.1110	-.1100	.2230	.0410
150.0000									.0660	.1350
157.0000	-.1190	-.1440	-.1480	-.1440	-.1710		-.1210	-.1060	-.0160	.1490
162.0000	-.1490	-.1170	-.1260	-.1100	-.0990		-.1700		-.0220	-.0100
180.0000	-.1660	-.1510	-.1080	-.0830	-.0580		-.0730	-.0730	-.0810	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB22) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = .430

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2320		-.1390
40.0000	.2880	.2400			-.1070
70.0000	-.1790	-.1500	-.1840		
90.0000	-.1910	-.1710	-.1580		
105.0000	-.1710	-.1640	-.1570		
110.0000				-.0980	
120.0000	-.1240	-.1400	-.1410	-.1350	
135.0000	-.1210	-.1390	-.1280		
150.0000	-.1040	-.1080	-.1040		
165.0000	-.0460	-.0860	-.1260		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 6.450

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5180	1.5690	1.0190	.3540	.3320	.3340			.3290	
20.0000			.9740	.3690	.3160	.3150			.3160	
40.0000			.8560	.3340	.2430	.2310			.2020	
55.0000			.7050	.2400	.1210	-.0430			-.0740	
70.0000			.5260	.0840	-.0090	-.0260			-.0110	
90.0000		.9250	.3450	-.0110	-.0330	-.0160			-.0120	
120.0000			.1600	-.0680	-.0360	-.0110			.0950	
142.0000										-.0820
150.0000			.1050	-.0840	-.0340	-.0090			.1900	
157.0000								.2080		
162.0000									.3020	
169.0000									.2810	
172.0000							.2760			
180.0000	1.5130	.5960	.0780	-.0720	-.0400	.0140			.4030	

AMES 87-717 OA12 OBA ORBITER FUSELAGE (RBQB22) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 6.450

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3350	.3350	.3300	.3080	.2910	.2940				
20.0000	.3160									
40.0000	.1190	.0580	.0920	.1530	.2530	.2790	.2830		.2860	.2810
55.0000	-.0880									
70.0000	-.0220	-.0690	-.0840	-.1240	-.2110		-.1840	-.2000	-.1860	-.1820
90.0000	.0210	-.0630	-.0990	-.1200	-.1350		-.2180	-.2140	-.2060	-.2040
105.0000									-.1970	-.1900
120.0000	-.0550	-.1330	-.1510	-.1630	-.1430		-.1340	-.1470	-.0460	-.1460
135.0000									.0540	-.0180
150.0000	-.1270	-.1390	-.1480	-.1110	-.1180		-.1410	-.1330	-.0300	-.0230
165.0000	-.1740	-.1540	-.1180	-.0860	-.0860		-.1090		-.0580	.0360
180.0000	-.1740	-.1640	-.1760	-.1310	-.0900		-.1160	-.1220	-.1100	

MACH (1) = 2.498 BETA (4) = 6.450

X/LB	.8848	.9252	.9639	1.0015	1.0392
PHI					
.0000			.2250		-.1440
40.0000	.2600	.2190			-.1100
70.0000	-.1730	-.1620	-.1830		
90.0000	-.1950	-.1900	-.1830		
105.0000	-.1940	-.1920	-.1820		
110.0000				-.0690	
120.0000	-.1930	-.1910	-.1810	-.1650	
135.0000	-.1940	-.1430	-.1210		
150.0000	-.1430	-.0620	-.0570		
165.0000	.0170	-.0190	-.0560		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (PLOT22) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 BODFLR = 4.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 10.460

X/LB	.0000	.0175	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.4930	1.1300	.9880	.3420	.3270	.3270			.3230	
20.0000			.9120	.3340	.2920	.2970			.2950	
40.0000			.7600	.2690	.1890	.1720			.1410	
55.0000			.6010	.1540	.0610	-.0900			-.1270	
70.0000			.4260	.0210	-.0550	-.0780			-.0230	
90.0000		.8230	.2620	-.0560	-.0680	-.0490			-.0410	
125.0000			.1110	-.0970	-.0620	-.0360			.0460	-.1210
142.0000										
150.0000			.0720	-.1030	-.0630	-.0170			.1820	
157.0000								.3540		
162.0000									.2680	
169.0000									.2610	
172.0000							.3370			
180.0000	1.4930	.5850	.0730	-.0770	-.0590	-.0050			.3460	

MACH (1) = 2.498 BETA (5) = 10.460

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3330	.3320	.3270	.3140	.3060	.2970				
20.0000	.3010									
40.0000	.0520	-.0070	.0220	.0780	.1950	.2410	.2560		.2550	.2510
55.0000	-.1420									
70.0000	-.0720	-.1010	-.1360	-.1750	-.2220		-.1790	-.1990	-.1860	-.1800
90.0000	-.0080	-.0840	-.1160	-.1430	-.1870		-.2100	-.2110	-.2040	-.1950
108.0000									-.2070	-.1920
120.0000	-.0480	-.1230	-.1510	-.1620	-.1510		-.1630	-.1660	-.1530	-.1360
135.0000									-.0150	.0200
150.0000	-.1520	-.1680	-.1530	-.1030	-.1050		-.1380	-.1510	-.0550	-.0360
165.0000	-.1940	-.1750	-.1410	-.0910	-.1000		-.1190		-.1120	.0350
180.0000	-.1770	-.1950	-.1960	-.1510	-.1210		-.1200	-.1180	-.1050	

AMES 67-707 OA12 02A ORBITER FUSELAGE (RB0B22) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 10.460

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.2190		-.1720
40.0000	-.1700	.2070			-.1710
70.0000	-.1690	-.1570	-.1800		
90.0000	-.1890	-.1870	-.1870		
105.0000	-.1900	-.1870	-.1860		
110.0000				-.0760	
120.0000	-.1890	-.1880	-.1820	-.1710	
135.0000	-.1900	-.1420	-.1220		
150.0000	-.1160	-.0910	-.1220		
165.0000	-.0040	-.0070	-.0640		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -9.610

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5010	1.5630	1.0190	.3710	.3030	.2950			.2980	
20.0000			1.1350	.4770	.3420	.3210			.3330	
40.0000			1.2140	.5900	.4540	.4120			.4210	
55.0000			1.1470	.5890	.4110	.2560			.2380	
70.0000			1.0040	.4230	.2520	.2290			.2250	
90.0000		1.3170	.7590	.2720	.2010	.1740			.1720	
125.0000			.4120	.1160	.0930	.0750			.1490	
142.0000										.0310
150.0000			.2390	.0310	.0270	.0450			.2410	
157.0000								.2750		
162.0000									.2810	
169.0000									.2380	
172.0000							.1400			
180.0000	1.5010	.5780	.1150	-.0100	-.0080	.0050			.2550	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB22) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -9.610

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3120	.3180	.3190	.3160	.3110	.3010				
20.0000	.3350									
40.0000	.3990	.3430	.3650	.3580	.4000	.3090	.3750		.3500	
55.0000	.2580									
70.0000	.2260	.1250	.0870	.0820	.0820		-.0160	-.0660	-.0630	
90.0000	.1830	.0850	.0420	.0370	.0420		.0310	.0100	-.0030	
105.0000									.0230	
120.0000	.1270	-.0350	-.0540	-.0520	-.0590		-.0580	-.0520	.5620	
135.0000									.0270	
150.0000	-.0270	-.0540	-.0680	-.0760	-.0900		-.0790	-.0730	-.0510	
165.0000	-.0540	-.0330	-.0630	-.0850	-.0860		-.0830		-.0580	
190.0000	-.0880	-.0940	-.1000	-.0830	-.0900		-.0700	-.0710	-.0620	

MACH (2) = 3.502 BETA (1) = -9.610

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1920		-.0300
40.0000	.2830	.2340			-.0450
70.0000	-.0480	-.0500	-.0580		
90.0000	.0180	.0370	.0230		
105.0000	.1000	.0490	.0100		
110.0000				-.0520	
120.0000	.0790	.0300	.0170	-.0370	
135.0000	-.0320	-.0760	-.0760		
150.0000	-.0880	-.0890	-.0760		
165.0000	-.0560	-.0650	-.0730		

AMES 87-707 OA12 OPA ORBITER FUSELAGE (RB0822) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -5.600

X/LB	.0000	.0073	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5400	1.6010	1.0410	.3760	.3020	.2930			.2970	
20.0000			1.1140	.4580	.3280	.3090			.3210	
40.0000			1.1370	.5270	.3900	.3620			.3670	
55.0000			1.0400	.5300	.3270	.1650			.1410	
70.0000			.8870	.3320	.1810	.1520			.1460	
90.0000		1.2350	.6520	.2000	.1380	.1190			.1580	
120.0000			.3520	.0760	.0590	.0440			.0970	
142.0000										.0020
151.0000			.2140	.0150	.0120	.0360			.2120	
157.0000								.2990		
162.0000									.2570	
169.0000									.2350	
172.0000							.0990			
180.0000	1.5400	.5920	.1140	-.0140	-.0080	.0110			.3020	

MACH (2) = 3.502 BETA (2) = -5.600

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7269	.9283
PHI										
.0000	.3080	.3190	.3160	.3090	.2890	.2850				
20.0000	.3220									
40.0000	.3310	.2770	.3030	.3210	.3560	.3660	.3530		.3130	.3050
55.0000	.1540									
70.0000	.1400	.0700	.0380	.0280	.0140		-.0490	-.0870	-.0740	-.0720
90.0000	.1180	.0370	.0050	-.0030	-.0040		-.0080	-.0360	-.0480	-.0410
105.0000									-.0080	.0200
120.0000	.0840	-.0500	-.0700	-.0720	-.0820		-.0750	-.0720	.4360	.2170
135.0000									.0270	.0290
150.0000	-.0350	-.0640	-.0730	-.0850	-.0870		-.0770	-.0700	-.0220	-.0290
165.0000	-.0610	-.0490	-.0640	-.0810	-.0880		-.0810		-.0470	-.0110
180.0000	-.0640	-.0680	-.0930	-.0810	-.0800		-.0820	-.0780	-.1640	

DATE 07 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (R23322) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -5.600

X/LS	.6848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1830		-.0790
40.0000	.2660	.2180			-.0540
70.0000	-.0560	-.0700	-.0740		
90.0000	-.0380	-.0260	-.0360		
105.0000	.0140	-.0050	-.0350		
110.0000				-.0300	
120.0000	.0310	-.0120	-.0260	-.0310	
135.0000	-.0320	-.0720	-.0610		
150.0000	-.0830	-.0840	-.0820		
165.0000	-.0330	-.0550	-.0740		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = .420

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5700	1.6270	1.0550	.5800	.3030	.2950			.2980	
20.0000			1.0680	.4260	.3080	.2970			.3030	
40.0000			1.0130	.4350	.3070	.2870			.2840	
55.0000			.3820	.4140	.2230	.0690			.2390	
70.0000			.7060	.2160	.0990	.0650			.1610	
90.0000		1.0900	.4980	.1130	.0660	.0450			.0420	
120.0000			.2670	.0340	.0170	.0320			.0450	
142.0000										-.0220
150.0000			.1770	-.0420	.0030	.0260		.1160	.1040	
157.0000									.2160	
162.0000									.2160	
169.0000							.0440			
172.0000									.2020	
180.0000	1.5700	.6050	.1190	-.0110	.0140	.0240				

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB22) (16 MAY 73)

REFERENCE DATA

BREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = .420

X/LB	.2253	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3090	.3190	.3150	.2990	.2810	.2780				
20.0000	.3090									
40.0000	.2340	.1840	.2080	.2430	.2940	.3130	.3090		.2810	.2720
55.0000	.0340									
70.0000	.0560	.0070	-.0140	-.0260	-.0710		-.0710	-.1040	-.0880	-.0860
90.0000	.0520	-.0110	-.0330	-.0440	-.0480		-.0730	-.0550	-.0950	-.1040
105.0000									-.0600	-.0330
120.0000	.0360	-.0630	-.0820	-.0860	-.0890		-.0750	-.0680	.2320	.0980
135.0000									.0160	.0120
150.0000	-.0560	-.0710	-.0790	-.0900	-.0920		-.0790	-.0770	-.0330	-.0080
165.0000	-.0700	-.0630	-.0720	-.0720	-.0860		-.0990		-.0650	-.0210
180.0000	-.0840	-.0770	-.0700	-.0540	-.0490		-.0680	-.0740	-.0670	

MACH (2) = 3.502 BETA (3) = .420

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1750		-.0780
40.0000	.2430	.2010			-.0610
70.0000	-.0850	-.0860	-.0790		
90.0000	-.1010	-.0970	-.0770		
105.0000	-.0910	-.0790	-.0770		
110.0000				-.0620	
120.0000	-.0540	-.0690	-.0670	-.0630	
135.0000	-.049.	-.0850	-.0710		
150.0000	-.0760	-.0790	-.0680		
165.0000	-.0490	-.0660	-.0770		

AMES 87-707 OA12 OEA ORBITER FUSELAGE (RBQ822) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = .000 RUDFLR = 45.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 6.440

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5520	1.6020	1.0310	.3730	.3000	.2900			.2940	
20.0000			.9890	.3830	.2840	.2750			.2840	
40.0000			.8690	.3850	.2280	.2110			.1970	
55.0000			.7190	.3630	.1340	.0040			-.0360	
70.0000			.5420	.1220	.0320	-.0010			-.0060	
90.0000		.9320	.3650	.0440	.0080	.0050			.0070	
120.0000			.1900	-.0070	-.0170	.0130			.0110	
142.0000										-.02..
150.0000			.1350	-.0210	-.0190	.0080			.1290	
157.0000								.147..		
162.0000									.2340	
169.0000									.2210	
172.0000							.1270			
180.0000	1.5520	.5990	.1170	-.0160	-.0090	.0100			.3090	

MACH (2) = 3.502 BETA (4) = 6.440

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3070	.3170	.3150	.3000	.2880	.2830				
20.0000	.2910									
40.0000	.1400	.0920	.1160	.1580	.2340	.2600	.2710		.2540	.2490
55.0000	-.0370									
70.0000	-.0120	-.0400	-.0570	-.0500	-.1100		-.0790	-.1090	-.0880	-.0990
90.0000	.0110	-.0400	-.0550	-.0670	-.0850		-.1130	-.1140	-.1070	-.1070
105.0000									-.1100	-.1100
120.0000	-.0190	-.0650	-.0870	-.0900	-.0890		-.0880	-.0940	-.0640	-.1110
135.0000									-.0320	-.0270
150.0000	-.0740	-.0770	-.0820	-.0800	-.0870		-.0880	-.0880	-.0590	-.0520
165.0000	-.0890	-.0830	-.0790	-.0590	-.0640		-.0860		-.0700	-.0360
180.0000	-.0870	-.0860	-.0940	-.0770	-.0750		-.0830	-.0820	-.0690	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQB22) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8400 INCHES YMRP = .0000 INCHES

BREF = 39.8400 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 6.440

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1730		-.0800
40.0000	.2220	.1870			-.0630
70.0000	-.0920	-.0910	-.0810		
90.0000	-.1170	-.1170	-.1030		
105.0000	-.1150	-.1210	-.1060		
110.0000				-.0510	
120.0000	-.1200	-.1220	-.1040	-.0640	
135.0000	-.1200	-.1070	-.0930		
150.0000	-.1030	-.0970	-.0930		
165.0000	-.0630	-.0720	-.0690		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 10.440

X/LB	.0000	.0075	.0188	.0339	.0802	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5230	1.5570	.9950	.3630	.2950	.2870			.2910	
20.0000			.9200	.3500	.2660	.2640			.2690	
40.0000			.7690	.2840	.1830	.1650			.1450	
55.0000			.6130	.2230	.0850	-.0280			-.0600	
70.0000			.4420	.0730	.0030	-.0310			-.0420	
90.0000		.8160	.2380	.0060	-.0180	-.0060			-.0110	
120.0000			.1490	-.0290	-.0310	-.0050			-.0140	
142.0000										-.0580
150.0000			.1100	-.0360	-.0260	-.0080			.1100	
157.0000								.1930		
162.0000									.2210	
169.0000									.1960	
172.0000							.1440			
180.0000	1.5230	.5890	.1140	-.0200	-.0130	.0060			.2680	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0B22) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.9490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000

ELEVON = .000 RUDFLR = 4..000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 10.440

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.3020	.3130	.3150	.3050	.2950	.2880				
20.0000	.2780									
40.0000	.0250	.0380	.0620	.0980	.1750	.2170	.2370		.2270	
55.0000	-.0620									
70.0000	-.0560	-.0620	-.0730	-.1120	-.1150		-.0820	-.1110	-.0890	-.[illegible]
90.0000	-.0050	-.0510	-.0660	-.0880	-.1160		-.1170	-.1160	-.1040	-.[illegible]
105.0000									-.1060	.[illegible]
120.0000	-.0330	-.0670	-.0850	-.0930	-.0910		-.1070	-.1160	-.1100	-.[illegible]
135.0000									-.0490	-.[illegible]
150.0000	-.0780	-.0900	-.0890	-.0770	-.0720		-.0980	-.1070	-.0770	-.[illegible]
165.0000	-.0980	-.0950	-.0900	-.0660	-.0660		-.0870		-.0790	-.[illegible]
180.0000	-.0890	-.1020	-.1020	-.0880	-.0890		-.0800	-.0820	-.0670	

MACH (2) = 3.502 BETA (5) = 10.440

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1860		-.0830
40.0000	.2160	.1800			-.0630
70.0000	-.0810	-.0790	-.0840		
90.0000	-.1010	-.1020	-.1030		
105.0000	-.1010	-.1030	-.1040		
110.0000				-.0430	
120.0000	-.1010	-.1030	-.1050	-.0550	
135.0000	-.1010	-.1040	-.1020		
150.0000	-.1010	-.0710	-.1020		
165.0000	-.0220	- 0280	-.0490		

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RB0823) (16 MAY 73)

REFERENCE DATA

SREF = 2.421[illegible] SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 15.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -5.560

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.5980	1.4650	.8750	.2380	.2090	.2120			.2090	
20.0000			.9430	.3180	.2310	.2230			.2250	
40.0000			1.0050	.4040	.3130	.2620			.2640	
55.0000			.9590	.3800	.2910	.1780			.1750	
70.0000			.8610	.2930	.1740	.1730			.1690	
90.0000		1.2790	.6860	.1890	.1450	.1440			.1560	
120.0000			.4300	.0900	.0830	.1340			.2510	
142.0000										.0350
150.0000			.2910	.0280	.0290	.1020			.4450	
157.0000								.5490		
162.0000									.4490	
169.0000									.3780	
172.0000							.4720			
180.0000	1.5980	.7300	.1640	-.0040	.0030	.0570			.5160	

MACH (1) = 2.498 BETA (1) = -5.560

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2100	.2120	.2080	.1940	.1780	.1790				
20.0000	.2200									
40.0000	.2390	.2110	.2350	.2240	.2460	.2450	.2300		.2290	.2100
55.0000	.1810									
70.0000	.1730	.0660	.0380	.0290	.0190		-.0780	-.1230	-.1320	-.1470
90.0000	.1870	.0510	-.0110	-.0250	-.0320		-.0480	-.0680	-.0770	-.0300
105.0000									-.0380	.0550
121.0000	.0800	-.0740	-.0960	-.1120	-.1370		-.1390	-.1380	.4410	.2080
135.0000									-.0320	-.0200
150.0000	-.0770	-.1120	-.1060	-.0960	-.1220		-.1250	-.1230	-.0490	-.0710
165.0000	-.1110	-.0720	-.0760	-.0820	-.1050		-.1250		-.0710	-.0090
180.0000	-.1370	-.1500	-.1770	-.1480	-.1070		-.0630	-.0720	-.0750	

AMES 87-/07 OA12 C2A ORBITER FUSELAGE (RB0023) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 15.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -5.560

X/LB	.0848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1320		-.1370
40.0000	.1620	.1460			-.0970
70.0000	-.1110	-.1160	-.1170		
90.0000	-.0280	-.0320	-.0610		
105.0000	.0360	-.0370	-.0710		
110.0000				-.0790	
120.0000	-.0120	-.0510	-.0720	-.0790	
135.0000	-.1510	-.1490	-.1330		
150.0000	-.1490	-.1440	-.1330		
165.0000	-.0890	-.0860	-.1080		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.458 BETA (2) = .420

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1952
PHI										
.0000	1.6190	1.4820	.8820	.2390	.2120	.2140			.2130	
20.0000			.9040	.2880	.2170	.2140			.2160	
40.0000			.8940	.3220	.2380	.2120			.2010	
55.0000			.8130	.2650	.1850	.0630			.0590	
70.0000			.6880	.1740	.0730	.0790			.0800	
90.0000		1.1360	.5280	.0890	.0510	.0660			.1000	
120.0000			.3290	.0260	.0220	.0930			.0920	
142.0000										-.0300
150.0000			.2380	-.0070	.0050	.0700			.3710	
157.0000								.4440		
162.0000									.3870	
169.0000									.3700	
172.0000							.3780			
180.0000	1.6190	.7430	.1610	-.0090	.0100	.0580			.5260	

DATE 07 [illegible] 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER FUSELAGE (RBQ823) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 15.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = .420

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2110	.2100	.2080	.1890	.1770	.1870				
20.0000	.2080								.2120	.2060
40.0000	.1540	.1200	.1530	.1720	.1980	.2120	.2030			
55.0000	.0680						-.1390	-.1690	-.1760	-.1770
70.0000	.0840	.0000	-.0240	-.0430	-.0650		-.1000	-.1200	-.1320	-.0990
90.0000	.0920	-.0180	-.0650	-.0770	-.0890				-.0250	-.0330
105.0000							-.1080	-.0910	.1570	.1410
120.0000	.0190	-.0840	-.1060	-.1290	-.1450				.0970	.0440
135.0000							-.1160	-.1120	.0050	-.0040
150.0000	-.1010	-.1110	-.1260	-.1100	-.0930		-.0710		-.0420	.0790
165.0000	-.1360	-.1140	-.1100	-.0850	-.0730		-.0400	-.0420	-.0370	
180.0000	-.1580	-.1430	-.1020	-.0750	-.0530					

MACH (1) = 2.498 BETA (2) = .420

X/LB	.8840	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1460		-.1310
40.0000	.1810	.1460			-.0870
70.0000	-.1690	-.1570	-.1750		
90.0000	-.1100	-.1140	-.1280		
105.0000	-.0480	-.0980	-.1260		
110.0000				-.0580	
120.0000	-.0490	-.1030	-.1140	-.1120	
135.0000	-.1260	-.1080	-.0940		
150.0000	-.0630	-.0670	-.0700		
165.0000	.0100	-.0150	-.0610		

AMES 87-707 OA12 OBA ORBITER FUSELAGE (RBQB23) (16 [illegible] 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. YMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 15.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = 6.340

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6120	1.4640	.8640	.2390	.2060	.2070			.2070	
20.0000			.8380	.2560	.1940	.2000			.1970	
40.0000			.7730	.2460	.1640	.1510			.1330	
55.0000			.6670	.1960	.0930	-.0350			-.0270	
70.0000			.5310	.0730	-.0050	.0000			.0130	
90.0000		.9930	.3860	.0070	-.0200	.0180			.0270	
120.0000			.2380	-.0260	-.0340	.0090			.0640	
142.0000										-.0770
150.0000			.1900	-.0340	-.0210	.0290			.2880	
157.0000								.4050		
162.0000									.3670	
169.0000									.3780	
172.0000							.3920			
180.0000	1.6120	.7420	.1640	-.0130	.0050	.0510			.5180	

MACH (1) = 2.498 BETA (3) = 6.340

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.2070	.2130	.2080	.1900	.1760	.1770				
20.0000	.1920									
40.0000	.0660	.0220	.0440	.0860	.1550	.1760	.1740		.1800	.1810
55.0000	-.0390									
70.0000	.0190	-.0400	-.0650	-.0900	-.1340		-.1690	-.1880	-.1890	-.1840
90.0000	.0420	-.0620	-.1010	-.1100	-.1290		-.1420	-.1650	-.1510	-.1660
109.0000									-.0790	-.1060
120.0000	-.0170	-.1070	-.1240	-.1300	-.1110		-.0990	-.1000	-.0080	.0290
135.0000									.0530	.1050
150.0000	-.1270	-.1390	-.1350	-.0880	-.0730		-.0760	-.0750	.0720	.1240
165.0000	-.1650	-.1540	-.1250	-.0790	-.0680		-.0630		-.0130	.1460
180.0000	-.1590	-.1540	-.1680	-.1430	-.0920		-.0630	-.0550	-.0520	

AMES 87-707 OA12 O2A ORBITER FUSELAGE (RBQB23) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 15.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = 6.340

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.1320		-.1410
40.0000	.1670	.1320			-.0990
70.0000	-.1820	-.1750	-.1800		
90.0000	-.1740	-.1770	-.1750		
105.0000	-.1450	-.1660	-.1740		
110.0000				-.0680	
120.0000	-.0980	-.1230	-.1300	-.1270	
135.0000	-.0960	-.0910	-.0510		
150.0000	-.0540	-.0340	-.0250		
165.0000	.0670	.0230	-.0550		

SECTION (2)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -5.540

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6430	1.4930	.8770	.2670	.1960	.1760			.1720	
20.0000			.9590	.3340	.2160	.1900			.1680	
40.0000			1.0260	.4120	.2880	.2360			.2330	
55.0000			.9820	.4110	.2740	.1610			.1520	
70.0000			.8740	.3100	.1770	.1460			.1420	
90.0000		1.3090	.6950	.2170	.1470	.1220			.1310	
120.0000			.4410	.1290	.0960	.1020			.1390	
142.0000										.0400
150.0000			.3110	.0700	.0550	.0870			.3260	
157.0000								.4330		
162.0000									.3720	
169.0000									.3440	
172.0000							.2480			
180.0000	1.6430	.7430	.1990	.0390	.0350	.0480			.4400	

AMES 67-707 OA12 O2A ORBITER FUSELAGE (RBGB23) (16 MAY 75)

REFERENCE DATA

SREF = 2.4910 SQ.FT. XMRP = 32.3000 INCHES

LREF = 19.8430 INCHES YMRP = .0000 INCHES

BREF = 35.2490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 15.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -5.540

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1760	.1850	.1840	.1760	.1690	.1660				
20.0000	.1870									
40.0000	.2220	.1910	.2050	.1990	.2280	.2260	.2150		.1850	.1750
55.0000	.1570									
70.0000	.1430	.0710	.0370	.0290	.0210		-.0230	-.0610	-.0600	-.0590
90.0000	.1460	.0520	.0120	-.0010	-.0050		-.0130	-.0280	-.0280	-.0010
105.0000									-.0120	.0590
120.0000	.0950	-.0350	-.0500	-.0610	-.0750		-.0720	-.0730	.4090	.2150
135.0000									.0170	.0300
150.0000	-.0220	-.0570	-.0550	-.0560	-.0770		-.0790	-.0770	-.0450	-.0570
165.0000	-.0470	-.0340	-.0420	-.0480	-.0710		-.0780		-.0510	-.0270
180.0000	-.0720	-.0750	-.0940	-.0810	-.0720		-.0650	-.0680	-.0610	

MACH (2) = 3.502 BETA (1) = -5.540

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0880		-.0480
40.0000	.1470	.1100			-.0530
70.0000	-.0410	-.0420	-.0420		
90.0000	.0440	.0110	.0080		
105.0000	.0750	.0320	.0090		
110.0000				-.0530	
120.0000	.0540	.0110	-.0070	-.0480	
135.0000	-.0350	-.0780	-.0770		
150.0000	-.0850	-.0850	-.0790		
165.0000	-.0490	-.0580	-.0690		

AMES 87-707 OA12 O2A OPBITER FUSELAGE (RB0B23) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

BREF = 39.6490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 15.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = .420

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
PHI										
.0000	1.6630	1.5090	.8850	.2640	.1920	.1730			.1680	
20.0000			.9100	.3040	.1970	.1720			.1740	
40.0000			.9060	.3330	.2180	.1790			.1730	
55.0000			.8270	.3310	.1780	.0610			.0500	
70.0000			.6990	.1970	.0900	.0640			.0600	
90.0000		1.1560	.5400	.1230	.0690	.0540			.0640	
120.0000			.3440	.0690	.0450	.0610			.0630	
142.0000										-.0070
150.0000			.2600	.0400	.0290	.0610			.2570	
157.0000								.2460		
162.0000									.3320	
169.0000									.3340	
172.0000							.1050			
180.0000	1.6630	.7530	.1980	.0340	.0300	.0580			.4630	

MACH (2) = 3.502 BETA (2) = .420

X/LB	.2259	.2711	.3200	.3953	.5120	.5873	.6626	.7380	.7869	.8283
PHI										
.0000	.1730	.1800	.1800	.1670	.1560	.1600				
20.0000	.1730									
40.0000	.1430	.1140	.1310	.1480	.1730	.1900	.1860		.1630	.1540
55.0000	.0510									
70.0000	.0560	.0090	-.0130	-.0270	-.0370		-.0650	-.0890	-.0860	-.0890
90.0000	.0680	-.0050	-.0300	-.0430	-.0500		-.0560	-.0670	-.0680	-.0540
105.0000									-.0410	-.0070
120.0000	.0380	-.0480	-.0640	-.0730	-.0830		-.0760	-.0720	.1610	.1120
135.0000									.0180	.0320
150.0000	-.0480	-.0600	-.0690	-.0700	-.0810		-.0810	-.0760	-.0220	-.0080
165.0000	-.0620	-.0640	-.0630	-.0550	-.0580		-.0600		-.0480	.0010
180.0000	-.0800	-.0740	-.0700	-.0540	-.0440		-.0400	-.0430	-.0380	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB3923) (16 [illegible] 73)

REFERENCE DAT.

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.3400 INCHES YMRP = .0000 INCHES

BREF = 3.8490 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 15.000 RUDDER = .000

ELEVON = .000 RUDDLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = .420

X/LB	.9648	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0920		-.0540
40.0000	.1330	.1050			-.0540
70.0000	-.0790	-.0820	-.0820		
90.0000	-.0450	-.0580	-.0580		
105.0000	-.0030	-.0310	-.0550		
110.0000				-.0420	
120.0000	-.0040	-.0380	-.0490	-.0520	
135.0000	-.0260	-.0620	-.0520		
150.0000	-.0560	-.0520	-.0530		
165.0000	-.0250	-.0280	-.0460		

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = 6.320

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1959
PHI										
.0000	1.6520	1.4940	.8680	.2610	.1860	.1730			.1700	
20.0000			.8450	.2730	.1790	.1620			.1650	
40.0000			.7840	.2600	.1580	.1370			.1190	
55.0000			.6800	.2380	.1040	-.0020			-.0060	
70.0000			.5450	.1120	.0310	.0110			.0190	
90.0000		1.0020	.4040	.0530	.0150	.0300			.0250	
120.0000			.2620	.0230	.0090	.0290			.0030	
142.0000										-.0340
150.0000			.2180	.0180	.0160	.0340			.2020	
157.0000								.2980		
162.0000									.3200	
169.0000									.3230	
172.0000							.2610			
180.0000	1.6520	.7540	.2000	.0310	.0340	.0420			.4460	

AMES 87-707 OA12 02A ORBITER FUSELAGE (RB0823) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES

LREF = 39.8490 INCHES YMRP = .0000 INCHES

DREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 15.000 RUDDER = .000

ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = 6.320

X/LB	.2259	.2711	.3200	.3953	.5120		.6626	.7380	.7969	.8283
PHI										
.0000	.1720	.1800	.1790	.1720	.1660	.1610				
25.0000	.1620									
40.0000	.0730	.0430	.0580	.0810	.1260	.1490	.1570		.1470	.1410
55.0000	-.0130									
70.0000	.0100	-.0240	-.0360	-.0590	-.0830		-.0830	-.1040	-.0980	-.0980
90.0000	.0170	-.0280	-.0520	-.0670	-.0740		-.0830	-.1010	-.0970	-.0960
105.0000									-.0440	-.0600
120.0000	-.0040	-.0590	-.0870	-.0760	-.0780		-.0750	-.0730	.0160	.0370
135.0000									.0130	.0270
150.0000	-.0620	-.0780	-.0780	-.0650	-.0530		-.0600	-.0640	-.0110	.0340
165.0000	-.0810	-.0800	-.0790	-.0560	-.0480		-.0530		-.0350	.0410
180.0000	-.0770	-.0810	-.0900	-.0780	-.0750		-.0530	-.0570	-.0560	

MACH (2) = 3.502 BETA (3) = 6.320

X/LB	.8848	.9262	.9639	1.0015	1.0392
PHI					
.0000			.0850		-.0770
40.0000	.1280	.0980			-.0600
70.0000	-.0920	-.0900	-.0820		
90.0000	-.1000	-.0890	-.0970		
105.0000	-.0950	-.0950	-.0950		
110.0000				-.0320	
120.0000	-.0530	-.0770	-.0800	-.0770	
135.0000	-.0540	-.0630	-.0560		
150.0000	-.0520	-.0490	-.0390		
165.0000	.0120	.0160	-.0280		

AMES 87-707 OA12 OBA ORBITER BASE (RP3001) (10 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.499 ALPHA (1) = -.090

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1390	-.1550	-.1400	-.1230	-.1270	-.1250	-.1230	-.1250	-.1260

MACH (1) = 2.498 ALPHA (2) = 4.960

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1320	-.1490	-.1350	-.1210	-.1250	-.1230	-.1210	-.1230	-.1230

MACH (1) = 2.498 ALPHA (3) = 9.970

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1440	-.1570	-.1470	-.1350	-.1360	-.1400	-.1420	-.1380	-.1390

MACH (1) = 2.498 ALPHA (4) = 14.890

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1580	-.1640	-.1660	-.1520	-.1560	-.1580	-.1590	-.1570	-.1580

MACH (1) = 2.498 ALPHA (5) = 19.870

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1510	-.1540	-.1520	-.1470	-.1540	-.1530	-.1490	-.1470	-.1480

MACH (2) = 3.502 ALPHA (1) = -.020

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0850	-.0900	-.0860	-.0750	-.0760	-.0780	-.0790	-.0770	-.0780

MACH (2) = 3.502 ALPHA (2) = 5.170

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0780	-.0850	-.0810	-.0690	-.0730	-.0730	-.0760	-.0750	-.0750

MACH (2) = 3.502 ALPHA (3) = 10.130

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0860	-.0890	-.0870	-.0800	-.0820	-.0820	-.0820	-.0810	-.0820

MACH (2) = 3.502 ALPHA (4) = 15.050

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0900	-.0910	-.0880	-.0850	-.0860	-.0870	-.0860	-.0860	-.0880

MACH (2) = 3.502 ALPHA (5) = 20.020

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0850	-.0880	-.0860	-.0790	-.0840	-.0840	-.0840	-.0830	-.0850

AMES 67-707 OA12 O2A ORBITER BASE (RBQC02) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -3.300

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1410	-.1590	-.1410	-.1250	-.1300	-.1280	-.1290	-.1250	-.1270

MACH (1) = 2.498 BETA (2) = 3.060

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1370	-.1470	-.1340	-.1220	-.1260	-.1290	-.1310	-.1260	-.1260

MACH (2) = 3.502 BETA (1) = -3.410

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0820	-.0890	-.0850	-.0740	-.0780	-.0770	-.0810	-.0770	-.0770

MACH (2) = 3.502 BETA (2) = 3.190

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0850	-.0870	-.0840	-.0730	-.0770	-.0790	-.0800	-.0790	- 0780

AMES 87-707 OA12 02A ORBITER BASE (R80C03) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.1530	-.1580	-.1560	-.1480	-.1480	-.1480	-.1500	-.1480	-.1490

MACH (1) = 2.498 BETA (2) = -3.240

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.1500	-.1610	-.1510	-.1420	-.1450	-.1450	-.1490	-.1460	-.1470

MACH (1) = 2.498 BETA (3) = 3.020

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.1480	-.1590	-.1467	-.1390	-.1410	-.1420	-.1430	-.1430	-.1420

MACH (1) = 2.498 BETA (4) = 6.200

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.1530	-.1570	-.1570	-.1470	-.1480	-.1500	-.1510	-.1480	-.1480

MACH (2) = 3.502 BETA (1) = -6.720

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.0880	-.0870	-.0900	-.0830	-.0850	-.0840	-.0840	-.0830	-.0850

MACH (2) = 3.502 BETA (2) = -3.460

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.0850	-.0860	-.0860	-.0810	-.0810	-.0840	-.0860	-.0840	-.0850

MACH (2) = 3.502 BETA (3) = 3.140

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.0870	-.0910	-.0860	-.0820	-.0830	-.0820	-.0840	-.0840	- 0840

MACH (2) = 3.502 BETA (4) = 6.440

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.0830	-.0840	-.0800	-.0790	-.0810	-.0810	-.0830	-.0810	-.0830

AMES 87-707 OA12 O2A ORBITER BASE (RBQC04) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1510	-.1490	-.1530	-.1490	-.1540	-.1460	-.1520	-.1510	-.1540

MACH (1) = 2.498 BETA (2) = -3.310

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1510	-.1550	-.1520	-.1540	-.1530	-.1500	-.1510	-.1510	-.1510

MACH (1) = 2.498 BETA (3) = 3.050

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1590	-.1690	-.1610	-.1560	-.1590	-.1580	-.1580	-.1540	-.1540

MACH (1) = 2.498 BETA (4) = 6.240

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1630	-.1700	-.1630	-.1580	-.1580	-.1580	-.1580	-.1560	-.1570

MACH (2) = 3.502 BETA (1) = -6.710

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0930	-.0930	-.0930	-.0890	-.0890	-.0920	-.0930	-.0920	-.0910

MACH (2) = 3.502 BETA (2) = -3.430

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0840	-.0840	-.0840	-.0830	-.0820	-.0830	-.0830	-.0840	-.0860

MACH (2) = 3.502 BETA (3) = 3.160

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0890	-.0920	-.0890	-.0830	-.0870	-.0870	-.0850	-.0850	-.0860

MACH (2) = 3.502 BETA (4) = 6.470

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0900	-.0890	-.0930	-.0850	-.0890	-.0900	-.0880	-.0880	-.0880

AMES 87-707 OA12 02A ORBITER BASE (RBQC05) (10 MAY 72)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	-20.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1510	-.1650	-.1480	-.1310	-.1320	-.1320	-.1370	-.1340	-.1340

MACH (1) = 2.498 BETA (2) = -3.300

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1360	-.1570	-.1410	-.1260	-.1270	-.1290	-.1320	-.1260	-.1270

MACH (1) = 2.498 BETA (3) = -.160

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1360	-.1520	-.1350	-.1230	-.1250	-.1240	-.1240	-.1230	-.1210

MACH (1) = 2.498 BETA (4) = 3.060

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1460	-.1490	-.1380	-.1260	-.1310	-.1320	-.1340	-.1270	-.1280

MACH (1) = 2.498 BETA (5) = 6.290

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1480	-.1530	-.1460	-.1270	-.1390	-.1410	-.1420	-.1360	-.1370

MACH (2) = 3.501 BETA (1) = -6.670

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0890	-.0920	-.0850	-.0780	-.0790	-.0800	-.0810	-.0800	-.0800

MACH (2) = 3.501 BETA (2) = -3.420

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0820	-.0870	-.0820	-.0720	-.0760	-.0770	-.0790	-.0760	-.0760

MACH (2) = 3.501 BETA (3) = -.160

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0830	-.0870	-.0800	-.0720	-.0730	-.0730	-.0750	-.0750	-.0730

MACH (2) = 3.501 BETA (4) = 3.180

TAP NO	7.000	8.000	9.000	11.0[illegible]	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0860	-.0870	-.0810	-.0700	-.0740	-.0750	-.0790	-.0760	-.0770

MACH (2) = 3.501 BETA (5) = 6.530

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0920	-.0960	-.0910	-.0780	-.0860	-.0880	-.0880	-.0860	-.0840

AMES 87-707 OA12 02A ORBITER BASE (RBQC08) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.1560	-.1600	-.1560	-.1490	-.1500	-.1510	-.1510	-.1510	-.1510

MACH (1) = 2.498 BETA (2) = -3.340

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.1490	-.1620	-.1500	-.1440	-.1430	-.1470	-.1470	-.1420	-.1440

MACH (1) = 2.498 BETA (3) = -.160

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.1400	-.1560	-.1440	-.1320	-.1350	-.1370	-.1390	-.1360	-.1350

MACH (1) = 2.498 BETA (4) = 3.020

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.1460	-.1560	-.1460	-.1380	-.1400	-.1390	-.1420	-.1400	-.1400

MACH (1) = 2.498 BETA (5) = 6.210

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.1490	-.1520	-.1600	-.1480	-.1500	-.1510	-.1530	-.1490	-.1490

MACH (2) = 3.501 BETA (1) = -6.750

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.0870	-.0880	-.0880	-.0810	-.0810	-.0830	-.0850	-.0840	-.0840

MACH (2) = 3.501 BETA (2) = -3.450

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.0880	-.0920	-.0900	-.0850	-.0870	-.0870	-.0870	-.0860	-.0850

MACH (2) = 3.501 BETA (3) = -.160

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.0910	-.0950	-.0920	-.0820	-.0850	-.0850	-.0860	-.0850	-.0860

MACH (2) = 3.501 BETA (4) = 3.140

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.0820	-.0870	-.0840	-.0770	-.0810	-.0770	-.0820	-.0800	-.0780

MACH (2) = 3.501 BETA (5) = 6.440

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.0880	-.0870	-.0850	-.0800	-.0800	-.0850	-.0850	-.0850	-.0850

AMES 87-707 OA12 02A ORBITER BASE (RBQC07) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000
ELEVON = .000 BODFLR = 40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	1 3
A									
.000	-.1490	-.1510	-.1530	-.1480	-.1530	-.1480	-.1530	-.1530	-.1530

MACH (1) = 2.498 BETA (2) = -3.320

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1440	-.1490	-.1520	-.1510	-.1530	-.1470	-.1510	-.1490	-.1490

MACH (1) = 2.498 BETA (3) = -.150

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1480	-.1480	-.1500	-.1450	-.1500	-.1500	-.1460	-.1460	-.1470

MACH (1) = 2.498 BETA (4) = 3.040

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1570	-.1670	-.1600	-.1560	-.1580	-.1570	-.1550	-.1510	-.1480

MACH (1) = 2.498 BETA (5) = 6.240

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1610	-.1670	-.1620	-.1540	-.1540	-.1580	-.1550	-.1530	-.1530

MACH (2) = 3.501 BETA (1) = -6 *10

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0890	-.0890	-.0900	-.0850	-.0880	-.0870	-.0880	-.0890	-.0890

MACH (2) = 3.501 BETA (2) = -3.440

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0830	-.0840	-.0820	-.0810	-.0810	-.0810	-.0810	-.0810	-.0830

MACH (2) = 3.501 BETA (3) = -.150

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0870	-.0870	-.0850	-.0820	-.0830	-.0830	-.0830	-.0840	-.0850

MACH (2) = 3.501 BETA (4) = 3.160

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0880	-.0920	-.0880	-.0840	-.0860	-.0870	-.0880	-.0880	-.0880

MACH (2) = 3.501 BETA (5) = 6.470

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0910	-.0880	-.0900	-.0870	-.0880	-.0900	-.0900	-.0890	-.0900

AMES 87-707 OA12 02A ORBITER BASE (RBQC08) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1670	-.1750	-.1580	-.1390	-.1380	-.1400	-.1480	-.1450	-.1450

MACH (1) = 2.498 BETA (2) = -3.300

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1530	-.1710	-.1510	-.1340	-.1360	-.1370	-.1420	-.1380	-.1380

MACH (1) = 2.498 BETA (3) = -.160

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1450	-.1600	-.1440	-.1270	-.1290	-.1300	-.1330	-.1310	-.1300

MACH (1) = 2.498 BETA (4) = 3.060

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1470	-.1340	-.1390	-.1290	-.1350	-.1370	-.1380	-.1330	-.1330

MACH (1) = 2.498 BETA (5) = 6.280

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1560	-.1620	-.1510	-.1360	-.1400	-.1450	-.1450	-.1410	-.1400

MACH (2) = 3.501 BETA (1) = -6.670

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0920	-.0950	-.0890	-.0800	-.0820	-.0850	-.0870	-.0850	-.0820

MACH (2) = 3.501 BETA (2) = -3.420

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0880	-.0900	-.0860	-.0780	-.0800	-.0820	-.0840	-.0830	-.0820

MACH (2) = 3.501 BETA (3) = -.170

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0940	-.0880	-.0850	-.0710	-.0740	-.0760	-.0780	-.0760	-.0760

MACH (2) = 3.501 BETA (4) = 3.100

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0870	-.0860	-.0840	-.0730	-.0760	-.0780	-.0800	-.0780	-.0780

MACH (2) = 3.501 BETA (5) = 6.530

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0890	-.0880	-.0850	-.0760	-.0800	-.0830	-.0850	-.0810	-.0830

AMES 37-707 OA12 O2A ORBITER BASE (RB3C09) , 16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8480 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8480 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0770 SCALE				

PARAMETRIC DATA

ALPHA =	10.000	RUDDER =	.000
ELEVON =	10.000	RUDFLR =	40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1570	-.1650	-.1620	-.1500	-.1520	-.1540	-.1570	-.1540	-.1520

MACH (1) = 2.498 BETA (2) = -3.340

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1510	-.1680	-.1560	-.1460	-.1470	-.1510	-.1510	-.1500	-.1480

MACH (1) = 2.498 BETA (3) = -.160

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1480	-.1620	-.1520	-.1400	-.1410	-.1430	-.1450	-.1430	-.1440

MACH (1) = 2.498 BETA (4) = 3.020

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1560	-.1690	-.1590	-.1490	-.1490	-.1510	-.1520	-.1520	-.1510

MACH (1) = 2.498 BETA (5) = 6.200

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1610	-.1640	-.1630	-.1480	-.1500	-.1530	-.1550	-.1500	-.1520

MACH (2) = 3.501 BETA (1) = -6.750

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0920	-.0940	-.0940	-.0840	-.0870	-.0890	-.0890	-.0890	-.0900

MACH (2) = 3.501 BETA (2) = -3.450

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0940	-.0930	-.0940	-.0890	-.0900	-.0920	-.0910	-.0910	-.0920

MACH (2) = 3.501 BETA (3) = -.160

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0870	-.0920	-.0890	-.0830	-.0810	-.0830	-.0840	-.0830	-.0830

MACH (2) = 3.501 BETA (4) = 3.130

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0900	-.0930	-.0910	-.0840	-.0870	-.0840	-.0860	-.0870	-.0870

MACH (2) = 3.501 BETA (5) = 6.440

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0890	-.0890	-.0860	-.0870	-.0870	-.0880	-.0900	-.0890	-.0900

AMES 87-707 OA12 02A ORBITER BASE (RBQC10) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1570	-.1590	-.1600	-.1490	-.1590	-.1590	-.1540	-.1530	-.1530

MACH (1) = 2.498 BETA (2) = -3.320

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1530	-.1600	-.1560	-.1510	-.1520	-.1540	-.1480	-.1450	-.1450

MACH (1) = 2.498 BETA (3) = -.160

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1580	-.1590	-.1540	-.1550	-.1570	-.1550	-.1520	-.1520	-.1530

MACH (1) = 2.498 BETA (4) = 3.040

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1590	-.1700	-.1590	-.1560	-.1590	-.1550	-.1550	-.1540	-.1520

MACH (1) = 2.498 BETA (5) = 6.240

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1650	-.1740	-.1650	-.1580	-.1630	-.1610	-.1620	-.1610	-.1610

MACH (2) = 3.501 BETA (1) = -6.710

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0890	-.0910	-.0920	-.0870	-.0890	-.0910	-.0900	-.0900	-.0900

MACH (2) = 3.501 BETA (2) = -3.440

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0880	-.0880	-.0890	-.0870	-.0880	-.0870	-.0870	-.0880	-.0890

MACH (2) = 3.501 BETA (3) = -.150

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0830	-.0840	-.0860	-.0810	-.0840	-.0840	-.0840	-.0840	-.0830

MACH (2) = 3.501 BETA (4) = 3.160

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0890	-.0900	-.0890	-.0880	-.0900	-.0870	-.0880	-.0880	-.0900

MACH (2) = 3.501 BETA (5) = 6.480

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0980	-.0990	-.0970	-.0920	-.0950	-.0930	-.0950	-.0950	-.0940

AMES 87-707 OA12 02A ORBITER BASE (RBQC11) (10 SEP 75)

REFERENCE DATA

BREF =	2.4210 SQ.FT.	XMRP =	32.5000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	.000
ELEVON =	-20.000	RUDFLR =	40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1430	-.1540	-.1430	-.1150	-.1280	-.1320	-.1310	-.1210	-.1240

MACH (1) = 2.498 BETA (2) = -3.300

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1300	-.1430	-.1280	-.0980	-.1140	-.1170	-.1180	-.1070	-.1090

MACH (1) = 2.498 BETA (3) = -.220

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1230	-.1380	-.1220	-.0970	-.1040	-.1090	-.1140	-.1030	-.1010

MACH (1) = 2.498 BETA (4) = 3.070

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1290	-.1340	-.1230	-.1070	-.1110	-.1180	-.1190	-.1120	-.1100

MACH (1) = 2.498 BETA (5) = 6.300

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1330	-.1360	-.1370	-.1180	-.1240	-.1290	-.1330	-.1230	-.1250

MACH (2) = 3.502 BETA (1) = -6.670

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0740	-.0780	-.0740	-.0660	-.0690	-.0700	-.0710	-.0670	-.0670

MACH (2) = 3.502 BETA (2) = -3.410

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0720	-.0780	-.0740	-.0600	-.0680	-.0680	-.0670	-.0620	-.0620

MACH (2) = 3.502 BETA (3) = -.160

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0710	-.0750	-.0680	-.0530	-.0600	-.0630	-.0650	-.0610	-.0600

MACH (2) = 3.502 BETA (4) = 3.180

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0720	-.0750	-.0690	-.0600	-.0650	-.0650	-.0680	-.0630	-.0630

MACH (2) = 3.502 BETA (5) = 6.550

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0800	-.0800	-.0780	-.0690	-.0680	-.0740	-.0770	-.0700	-.0700

AMES 87-707 OA12 O2A ORBITER BASE (RB@C12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.530

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1360	-.1440	-.1440	-.1210	-.1360	-.1390	-.1380	-.1330	-.1320

MACH (1) = 2.498 BETA (2) = -3.340

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1270	-.1390	-.1270	-.1170	-.1200	-.1220	-.1230	-.1190	-.1210

MACH (1) = 2.498 BETA (3) = -.170

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1150	-.1270	-.1180	-.1120	-.1090	-.1100	-.1130	-.1130	-.1120

MACH (1) = 2.498 BETA (4) = 3.020

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1210	-.1320	-.1240	-.1090	-.1190	-.1200	-.1210	-.1170	-.1150

MACH (1) = 2.498 BETA (5) = 6.200

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1320	-.1350	-.1450	-.1220	-.1330	-.1380	-.1410	-.1340	-.1330

MACH (2) = 3.502 BETA (1) = -6.750

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0790	-.0830	-.0830	-.0730	-.0780	-.0800	-.0810	-.0790	-.0800

MACH (2) = 3.502 BETA (2) = -3.460

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0730	-.0790	-.0780	-.0670	-.0730	-.0730	-.0730	-.0720	-.0720

MACH (2) = 3.502 BETA (3) = -.160

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0740	-.0770	-.0720	-.0650	-.0660	-.0680	-.0700	-.0680	-.0700

MACH (2) = 3.502 BETA (4) = 3.140

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0780	-.0820	-.0760	-.0690	-.0730	-.0740	-.0770	-.0750	-.0760

MACH (2) = 3.502 BETA (5) = 6.430

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0810	-.0790	-.0750	-.0760	-.0740	-.0770	-.0760	-.0780	-.0780

AMES 87-707 C..12 02A ORBITER BASE (RB0C13) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETR . DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1440	-.1470	-.1510	-.1300	-.1490	-.1480	-.1470	-.1460	-.1430

MACH (1) = 2.498 BETA (2) = -3.330

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1470	-.1520	-.1560	-.1420	-.1530	-.1500	-.1520	-.1500	-.1500

MACH (1) = 2.498 BETA (3) = -.160

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1520	-.1540	-.1540	-.1500	-.1520	-.1520	-.1510	-.1510	-.1510

MACH (1) = 2.498 BETA (4) = 3.040

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1540	-.1640	-.1540	-.1480	-.1530	-.1500	-.1520	-.1500	-.1510

MACH (1) = 2.498 BETA (5) = 6.240

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1580	-.1650	-.1590	-.1430	-.1530	-.1550	-.1540	-.1520	-.1510

MACH (2) = 3.502 BETA (1) = -6.710

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0800	-.0820	-.0800	-.0700	-.0790	-.0790	-.0800	-.0780	-.0770

MACH (2) = 3.502 BETA (2) = -3.440

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0850	-.0830	-.0850	-.0790	-.0820	-.0830	-.0840	-.0840	-.0840

MACH (2) = 3.502 BETA (3) = -.160

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0790	-.0730	-.0780	-.0760	-.0770	-.0770	-.0770	-.0780	-.0790

MACH (2) = 3.502 BETA (4) = 3.160

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0840	-.0880	-.0840	-.0800	-.0810	-.0820	-.0810	-.0820	-.0840

MACH (2) = 3.502 BETA (5) = 6.470

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0840	-.0860	-.0870	-.0790	-.0830	-.0830	-.0850	-.0820	-.0840

AMES 87-707 OA12 02A ORBITER BASE (RB9C14) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 35.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1660	-.1700	-.1560	-.1200	-.1330	-.1400	-.1430	-.1360	-.1360

MACH (1) = 2.498 BETA (2) = -3.300

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1610	-.1720	-.1540	-.1340	-.1390	-.1390	-.1420	-.1380	-.1390

MACH (1) = 2.498 BETA (3) = -.170

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1530	-.1640	-.1400	-.1270	-.1320	-.1340	-.1350	-.1280	-.1310

MACH (1) = 2.498 BETA (4) = 3.060

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1610	-.1680	-.1310	-.1260	-.1360	-.1410	-.1430	-.1330	-.1310

MACH (1) = 2.498 BETA (5) = 6.290

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1590	-.1650	-.1490	-.1280	-.1370	-.1440	-.1490	-.1370	-.1370

MACH (2) = 3.503 BETA (1) = -6.670

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0890	-.0940	-.0890	-.0750	-.0820	-.0850	-.0860	-.0840	-.0810

MACH (2) = 3.503 BETA (2) = -3.420

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0860	-.0900	-.0860	-.0760	-.0790	-.0820	-.0810	-.0810	-.0790

MACH (2) = 3.503 BETA (3) = -.170

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0870	-.0920	-.0890	-.0750	-.0800	-.0840	-.0850	-.0810	-.0820

MACH (2) = 3.503 BETA (4) = 3.180

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0940	-.0950	-.0910	-.0840	-.0820	-.0860	-.0890	-.0860	-.0890

MACH (2) = 3.503 BETA (5) = 6.520

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0950	-.0960	-.0910	-.0810	-.0820	-.0850	-.0890	-.0870	-.0880

AMES 87-707 OA12 02A ORBITER BASE (RBQC13) (16 SEP 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.300

SECTION (1)ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.1530	-.1600	-.1540	-.1430	-.1450	-.1490	-.1490	-.1410	-.1410

MACH (1) = 2.498 BETA (2) = -3.340

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.1550	-.1640	-.1520	-.1430	-.1460	-.1460	-.1480	-.1420	-.1410

MACH (1) = 2.498 BETA (3) = -.170

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.1500	-.1610	-.1450	-.1320	-.1380	-.1380	-.1390	-.1370	-.1390

MACH (1) = 2.498 BETA (4) = 3.020

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.1560	-.1650	-.1480	-.1470	-.1380	-.1430	-.1480	-.1420	-.1430

MACH (1) = 2.498 BETA (5) = 6.200

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.1640	-.1670	-.1550	-.1540	-.1460	-.1370	-.1500	-.1440	-.1450

MACH (2) = 3.503 BETA (1) = -6.750

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.0960	-.0980	-.0990	-.0890	-.0930	-.0940	-.0940	-.0920	-.0940

MACH (2) = 3.503 BETA (2) = -3.460

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.0910	-.0930	-.0930	-.0840	-.0890	-.0890	-.0880	-.0860	-.0870

MACH (2) = 3.503 BETA (3) = -.160

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.0980	-.1010	-.0970	-.0870	-.0910	-.0920	-.0920	-.0930	-.0920

MACH (2) = 3.503 BETA (4) = 3.130

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.0950	-.0970	-.0940	-.0840	-.0870	-.0900	-.0900	-.0900	-.0890

MACH (2) = 3.503 BETA (5) = 6.430

TAP NO A	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
.000	-.1000	-.1000	-.0950	-.0890	-.0920	-.0930	-.0970	-.0970	-.0950

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A ORBITER BASE (RBQC16) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1530	-.1560	-.1620	-.1580	-.1620	-.1610	-.1610	-.1620	-.1620

MACH (1) = 2.498 BETA (2) = -3.320

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1610	-.1700	-.1640	-.1610	-.1650	-.1630	-.1640	-.1640	-.1640

MACH (1) = 2.498 BETA (3) = -.160

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1660	-.1680	-.1680	-.1600	-.1640	-.1660	-.1610	-.1630	-.1630

MACH (1) = 2.498 BETA (4) = 3.040

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1730	-.1830	-.1700	-.1630	-.1680	-.1670	-.1640	-.1650	-.1650

MACH (1) = 2.498 BETA (5) = 6.240

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1690	-.1820	-.1730	-.1600	-.1640	-.1630	-.1660	-.1640	-.1630

MACH (2) = 3.503 BETA (1) = -6.720

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0980	-.0950	-.0960	-.0910	-.0950	-.0930	-.0940	-.0910	-.0950

MACH (2) = 3.503 BETA (2) = -3.440

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0910	-.0920	-.0960	-.0910	-.0930	-.0920	-.0940	-.0940	-.0930

MACH (2) = 3.503 BETA (3) = -.160

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0920	-.0920	-.0910	-.0870	-.0900	-.0900	-.0890	-.0900	-.0900

MACH (2) = 3.503 BETA (4) = 3.150

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0980	-.0990	-.0980	-.0910	-.0920	-.0950	-.0960	-.0950	-.0950

MACH (2) = 3.503 BETA (5) = 6.470

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1020	-.1000	-.1030	-.0960	-.0980	-.0980	-.0980	-.0980	-.0980

AMES 87-707 OA12 02A ORBITER BASE (RBQC17) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = 15.200

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1640	-.1640	-.1660	-.1590	-.1620	-.1620	-.1620	-.1640	-.1640

MACH (1) = 2.498 ALPHA (2) = 20.250

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1600	-.1630	-.1600	-.1580	-.1620	-.1580	-.1530	-.1540	-.1570

MACH (1) = 2.498 ALPHA (3) = 25.180

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1690	-.1710	-.1640	-.1670	-.1720	-.1680	-.1620	-.1660	-.1670

MACH (1) = 2.498 ALPHA (4) = 30.150

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1700	-.1700	-.1680	-.1690	-.1660	-.1590	-.1600	-.1600	-.1600

MACH (1) = 2.498 ALPHA (5) = 35.290

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1760	-.1760	-.1770	-.1720	-.1730	-.1710	-.1710	-.1680	-.1660

MACH (1) = 2.498 ALPHA (6) = 38.670

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1760	-.1780	-.1780	-.1750	-.1740	-.1710	-.1710	-.1660	-.1660

MACH (2) = 3.501 ALPHA (1) = 15.160

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0980	-.0990	-.0990	-.0930	-.0960	-.0980	-.0980	-.0970	-.0970

MACH (2) = 3.501 ALPHA (2) = 20.230

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0990	-.1000	-.0990	-.0920	-.0950	-.0970	-.0950	-.0980	-.0970

MACH (2) = 3.501 ALPHA (3) = 25.240

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0940	-.0950	-.0950	-.0910	-.0930	-.0910	-.0910	-.0920	-.0940

MACH (2) = 3.501 ALPHA (4) = 30.110

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0980	-.0980	-.1000	-.0930	-.0960	-.0970	-.0970	-.0940	-.0940

AMES 67-707 OA12 O2A ORBITER BASE (RB0C17)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (5) = 35.250

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1010	-.1020	-.1020	-.0960	-.0990	-.0990	-.0980	-.0980	-.0970

MACH (2) = 3.501 ALPHA (6) = 38.630

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0960	-.0960	-.0950	-.0900	-.0940	-.0930	-.0930	-.0930	-.0920

[illegible] 07-707 0412 02A ORBITER BASE (RBQC18) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.0000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1790	-.1830	-.1770	-.1700	-.1730	-.1740	-.1760	-.1720	-.1730

MACH (1) = 2.498 BETA (2) = -3.310

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1750	-.1800	-.1730	-.1710	-.1720	-.1680	-.1730	-.1710	-.1710

MACH (1) = 2.496 BETA (3) = -.120

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1670	-.1670	-.1670	-.1640	-.1630	-.1590	-.1610	-.1600	-.1600

MACH (1) = 2.498 BETA (4) = 3.060

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1760	-.1730	-.1830	-.1730	-.1720	-.1750	-.1750	-.1740	-.

MACH (1) = 2.498 BETA (5) = 6.240

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1710	-.1680	-.1740	-.1630	-.1700	-.1720	-.1750	-.1740	-.1720

MACH (2) = 3.501 BETA (1) = -6.700

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1010	-.1020	-.1000	-.0940	-.0960	-.0970	-.0970	-.0970	-.0980

MACH (2) = 3.501 BETA (2) = -3.420

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1020	-.1030	-.0990	-.0960	-.0980	-.0990	-.0980	-.0980	-.0980

MACH (2) = 3.501 BETA (3) = -.130

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0960	-.0970	-.0980	-.0920	-.0940	-.0930	-.0960	-.0930	-.0930

MACH (2) = 3.501 BETA (4) = 3.170

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0970	-.0920	-.0950	-.0930	-.0950	-.0950	-.0940	-.0940	-.0940

MACH (2) = 3.501 BETA (5) = 6.470

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1020	-.0990	-.1020	-.0960	-.0960	-.0990	-.0990	-.1010	-.1010

AMES 87-707 OA12 O2A ORBITER BASE (RB@C19) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	30.000	RUDDER =	-20.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1810	-.1860	-.1790	-.1740	-.1760	-.1750	-.1760	-.1760	-.1750

MACH (1) = 2.498 BETA (2) = -3.300

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1730	-.1710	-.1660	-.1660	-.1680	-.1630	-.1690	-.1680	-.1680

MACH (1) = 2.498 BETA (3) = -.140

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1690	-.1680	-.1650	-.1650	-.1610	-.1580	-.1610	-.1600	-.1610

MACH (1) = 2.498 BETA (4) = 3.060

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1750	-.1660	-.1730	-.1720	-.1710	-.1690	-.1710	-.1710	-.1700

MACH (1) = 2.498 BETA (5) = 6.250

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1720	-.1670	-.1740	-.1640	-.1690	-.1730	-.1730	-.1720	-.1730

MACH (2) = 3.502 BETA (1) = -6.700

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0960	-.0990	-.0980	-.0930	-.0950	-.0950	-.0970	-.0940	-.0940

MACH (2) = 3.502 BETA (2) = -3.420

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0960	-.0940	-.0930	-.0900	-.0910	-.0920	-.0920	-.0910	-.0910

MACH (2) = 3.502 BETA (3) = -.130

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0980	-.1000	-.1010	-.0940	-.0970	-.0990	-.0980	-.0970	-.0970

MACH (2) = 3.502 BETA (4) = 3.170

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0940	-.0920	-.0950	-.0900	-.0920	-.0920	-.0930	-.0910	-.0910

MACH (2) = 3.502 BETA (5) = 6.470

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0990	-.0980	-.1010	-.0940	-.0980	-.1000	-.0980	-.0970	-.0990

AMES 87-707 OA12 02A ORBITER BASE (RB9C20) (1

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1690	-.1710	-.1690	-.1680	-.1740	-.1670	-.1680	-.1690	-.1690

MACH (1) = 2.498 BETA (2) = -3.300

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1740	-.1750	-.1730	-.1640	-.1710	-.1680	-.1710	-.1680	-.1670

MACH (1) = 2.498 BETA (3) = -.130

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1690	-.1670	-.1680	-.1620	-.1650	-.1630	-.1620	-.1620	-.1640

MACH (1) = 2.498 BETA (4) = 3.060

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1730	-.1700	-.1760	-.1600	-.1680	-.1690	-.1710	-.1670	-.1680

MACH (1) = 2.498 BETA (5) = 6.240

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1690	-.1690	-.1750	-.1530	-.1670	-.1660	-.1660	-.1610	-.1630

MACH (2) = 3.501 BETA (1) = -6.700

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0950	-.0950	-.0980	-.0920	-.0970	-.0920	-.0950	-.0950	-.0950

MACH (2) = 3.501 BETA (2) = -3.420

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0940	-.0950	-.0950	-.0900	-.0960	-.0910	-.0940	-.0920	-.0920

MACH (2) = 3.501 BETA (3) = -.130

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0960	-.0960	-.0960	-.0900	-.0930	-.0940	-.0940	-.0920	-.0920

MACH (2) = 3.501 BETA (4) = 3.170

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0950	-.0980	-.0970	-.0870	-.0910	-.0930	-.0940	-.0910	-.0910

MACH (2) = 3.501 BETA (5) = 6.470

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0930	-.0910	-.0960	-.0860	-.0890	-.0930	-.0930	-.0910	-.0900

AMES 87-707 OA12 02A ORBITER BASE (RBQC21) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1810	-.1840	-.1790	-.1730	-.1750	-.1740	-.1760	-.1730	-.1730

MACH (1) = 2.498 BETA (2) = -3.310

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1730	-.1750	-.1720	-.1700	-.1710	-.1700	-.1710	-.1690	-.1710

MACH (1) = 2.498 BETA (3) = -.130

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1670	-.1680	-.1670	-.1700	-.1680	-.1660	-.1630	-.1650	-.1640

MACH (1) = 2.498 BETA (4) = 3.060

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1620	-.1660	-.1740	-.1690	-.1730	-.1710	-.1730	-.1730	-.1710

MACH (1) = 2.498 BETA (5) = 6.250

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1740	-.1720	-.1750	-.1640	-.1710	-.1700	-.1760	-.1730	-.1710

MACH (2) = 3.503 BETA (1) = -6.700

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1000	-.1010	-.0990	-.0930	-.0970	-.0960	-.0980	-.0970	-.0950

MACH (2) = 3.503 BETA (2) = -3.410

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0980	-.0970	-.0960	-.0900	-.0920	-.0920	-.0950	-.0920	-.0940

MACH (2) = 3.503 BETA (3) = -.130

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0930	-.0920	-.0940	-.0890	-.0900	-.0890	-.0890	-.0890	-.0880

MACH (2) = 3.503 BETA (4) = 3.170

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0940	-.0910	-.0930	-.0900	-.0900	-.0920	-.0930	-.0910	-.0900

MACH (2) = 3.503 BETA (5) = 6.470

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0970	-.0940	-.0960	-.0900	-.0950	-.0970	-.0970	-.0950	-.0950

AMES 87-707 OA12 O2A ORBITER BASE (F7QC22) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.849[illegible] INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -9.630

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1560	-.1610	-.1630	-.1610	-.1630	-.1600	-.1610	-.1590	-.1590

MACH (1) = 2.498 BETA (2) = -5.610

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1630	-.1630	-.1640	-.1640	-.1660	-.1630	-.1660	-.1650	-.1660

MACH (1) = 2.498 BETA (3) = .430

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1600	-.1670	-.1590	-.1600	-.1630	-.1600	-.1560	-.1530	-.1560

MACH (1) = 2.498 BETA (4) = 6.450

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1640	-.1720	-.1670	-.1570	-.1590	-.1630	-.1640	-.1590	-.1580

MACH (1) = 2.498 BETA (5) = 10.460

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1690	-.1800	-.1740	-.1680	-.1680	-.1690	-.1680	-.1690	-.1660

MACH (2) = 3.502 BETA (1) = -9.610

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0990	-.0980	-.1010	-.0950	-.0960	-.0980	-.0990	-.0980	-.0970

MACH (2) = 3.502 BETA (2) = -5.600

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0990	-.1000	-.0980	-.0950	-.0960	-.0980	-.0980	-.0960	-.0980

MACH (2) = 3.502 BETA (3) = .420

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0920	-.0960	-.0930	-.0880	-.0910	-.0900	-.0910	-.0910	-.0920

MACH (2) = 3.502 BETA (4) = 6.440

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1010	-.1000	-.1010	-.0910	-.0960	-.0960	-.0980	-.0980	-.0960

MACH (2) = 3.502 BETA (5) = 10.440

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1020	-.1020	-.1060	-.0990	-.0990	-.1020	-.1020	-.1040	-.1020

AMES 87-707 OA12 OEA ORBITER BASE (RB0C23) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 15.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -5.580

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1590	-.1590	-.1610	-.1610	-.1610	-.1590	-.1590	-.1590	-.1580

MACH (1) = 2.498 BETA (2) = .420

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1570	-.1590	-.1630	-.1530	-.1580	-.1570	-.1590	-.1590	-.1580

MACH (1) = 2.498 BETA (3) = 6.740

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.1630	-.1730	-.1600	-.1600	-.1590	-.1580	-.1580	-.1590	-.1610

MACH (2) = 3.502 BETA (1) = -5.540

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0960	-.0930	-.0950	-.0940	-.0950	-.0960	-.0950	-.0950	-.0940

MACH (2) = 3.502 BETA (2) = .420

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0980	-.0980	-.0970	-.0940	-.0980	-.0980	-.0980	-.0960	-.0960

MACH (2) = 3.502 BETA (3) = 6.320

TAP NO	7.000	8.000	9.000	11.000	12.000	13.000	14.000	15.000	16.000
A									
.000	-.0970	-.0990	-.0990	-.0920	-.0930	-.0940	-.0960	-.0960	-.0950

AMES 87-707 OA12 02A UPPER MPS NOZZLE (RB&D01) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = -.090

X/LNP	.250	.500	.750
PHI			
.000	-.1410	-.0590	
90.000	-.1100	-.0580	-.0580
135.000	-.0760	-.0630	-.0570
180.000	-.0950	-.0630	-.0580
225.000	-.0610	-.0580	-.0620
270.000	-.1250	-.0630	-.0600

MACH (1) = 2.498 ALPHA (2) = 4.960

X/LNP	.250	.500	.750
PHI			
.000	-.1380	-.0660	
90.000	-.1120	-.0670	-.0660
135.000	-.0830	-.0730	-.0660
180.000	-.1000	-.0710	-.0660
225.000	-.0700	-.0670	-.0710
270.000	-.1260	-.0710	-.0680

MACH (1) = 2.498 ALPHA (3) = 9.970

X/LNP	.250	.500	.750
PHI			
.000	-.1510	-.0840	
90.000	-.1270	-.0840	-.0850
135.000	-.1000	-.0890	-.0840
180.000	-.1140	-.0880	-.0860
225.000	-.0860	-.0850	-.0890
270.000	-.1410	-.0870	-.0850

MACH (1) = 2.498 ALPHA (4) = 14.890

X/LNP	.250	.500	.750
PHI			
.000	-.1670	-.0960	
90.000	-.1410	-.0950	-.0950
135.000	-.1110	-.1000	-.0950
180.000	-.1290	-.1000	-.0990
225.000	-.0970	-.0950	-.1000
270.000	-.1570	-.1010	-.0980

MACH (1) = 2.498 ALPHA (5) = 19.870

X/LNP	.250	.500	.750
PHI			
.000	-.1580	-.1070	
90.000	-.1410	-.1080	-.1080
135.000	-.1200	-.1110	-.1090
180.000	-.1290	-.1110	-.1090
225.000	-.1100	-.1090	-.1120

AMES 87-707 OA12 02A UPPER MPS NOZZLE (RBQD01)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (5) = 19.870

X/LNP	.250	.500	.750
PHI			
270.000	-.1520	-.1110	-.1080

MACH (2) = 3.502 ALPHA (1) = -.020

X/LNP	.250	.500	.750
PHI			
.000	-.0620	-.0260	
90.000	-.0620	-.0250	-.0250
135.000	-.0350	-.0270	-.0250
180.000	-.0400	-.0290	-.0250
225.000	-.0250	-.0250	-.0250
270.000	-.0600	-.0260	-.0220

MACH (2) = 3.502 ALPHA (2) = 5.170

X/LNP	.250	.500	.750
PHI			
.000	-.0730	-.0410	
90.000	-.0680	-.0400	-.0420
135.000	-.0440	-.0430	-.0410
180.000	-.0510	-.0410	-.0380
225.000	-.0400	-.0420	-.0400
270.000	-.0760	-.0410	-.0370

MACH (2) = 3.502 ALPHA (3) = 10.130

X/LNP	.250	.500	.750
PHI			
.000	-.0770	-.0520	
90.000	-.0770	-.0530	-.0520
135.000	-.0590	-.0530	-.0530
180.000	-.0620	-.0540	-.0530
225.000	-.0510	-.0510	-.0540
270.000	-.0820	-.0510	-.0490

MACH (2) = 3.502 ALPHA (4) = 15.050

X/LNP	.250	.500	.750
PHI			
.000	-.0780	-.0570	
90.000	-.0810	-.0570	-.0560
135.000	-.0620	-.0600	-.0570
180.000	-.0660	-.0590	-.0580
225.000	-.0570	-.0580	-.0580
270.000	-.0830	-.0580	-.0530

MACH (2) = 3.502 ALPHA (5) = 20.020

X/LNP	.250	.500	.750
PHI			
.000	-.0830	-.0640	
90.000	-.0830	-.0610	-.0620
135.000	-.0700	-.0650	-.0630
180.000	-.0730	-.0620	-.0650
225.000	-.0630	-.0620	-.0650

AMES 67-707 OA12 O2A UPPER MPS NOZZLE (RB0001)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (5) = 20.020

X/LNP	.250	.500	.750
PHI			
270.000	-.0890	-.0630	-.0600

AMES 87-707 OA12 02A UPPER MPS NOZZLE (RBQD02) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -3.300

X/LNP	.250	.500	.750
PHI			
.000	-.1410	-.0640	
90.000	-.1140	-.0630	-.0610
135.000	-.0820	-.0680	-.0630
180.000	-.0950	-.0680	-.0650
225.000	-.0640	-.0630	-.0650
270.000	-.1270	-.0650	-.0620

MACH (1) = 2.498 BETA (2) = 3.060

X/LNP	.250	.500	.750
PHI			
.000	-.1370	-.0590	
90.000	-.1100	-.0580	-.0590
135.000	-.0770	-.0610	-.0560
180.000	-.0950	-.0630	-.0500
225.000	-.0600	-.0590	-.0620
270.000	-.1260	-.0620	-.0610

MACH (2) = 3.502 BETA (1) = -3.410

X/LNP	.250	.500	.750
PHI			
.000	-.0710	-.0340	
90.000	-.0660	-.0350	-.0350
135.000	-.0440	-.0350	-.0340
180.000	-.0500	-.0350	-.0350
225.000	-.0340	-.0350	-.0340
270.000	-.0750	-.0350	-.0320

MACH (2) = 3.502 BETA (2) = 3.190

X/LNP	.250	.500	.750
PHI			
.000	-.0720	-.0330	
90.000	-.0620	-.0340	-.0320
135.000	-.0400	-.0340	-.0320
180.000	-.0470	-.0340	-.0310
225.000	-.0340	-.0320	-.0330
270.000	-.0740	-.0350	-.0310

AMES 87-707 OA12 02A UPPER MPS NOZZLE (RBQD03) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE C_P

MACH (1) = 2.498 BETA (1) = -6.520

X/LNP	.250	.500	.750
PHI			
.000	-.1580	-.0960	
90.000	-.1350	-.0930	-.0980
135.000	-.1100	-.0970	-.0940
180.000	-.1240	-.1000	-.0960
225.000	-.0990	-.0950	-.0970
270.000	-.1460	-.0960	-.0960

MACH (1) = 2.498 BETA (2) = -3.340

X/LNP	.250	.500	.750
PHI			
.000	-.1600	-.0930	
90.000	-.1350	-.0900	-.0920
135.000	-.1050	-.0940	-.0900
180.000	-.1200	-.0950	-.0940
225.000	-.0940	-.0920	-.0930
270.000	-.1490	-.0940	-.0950

MACH (1) = 2.498 BETA (3) = 3.020

X/LNP	.250	.500	.750
PHI			
.000	-.1530	-.0920	
90.000	-.1330	-.0900	-.0920
135.000	-.1060	-.0950	-.0890
180.000	-.1170	-.0940	-.0930
225.000	-.0940	-.0890	-.0940
270.000	-.1450	-.0930	-.0900

MACH (1) = 2.498 BETA (4) = 6.200

X/LNP	.250	.500	.750
PHI			
.000	-.1570	-.0970	
90.000	-.1390	-.0980	-.0930
135.000	-.1130	-.1020	-.0970
180.000	-.1250	-.1020	-.1020
225.000	-.1000	-.0990	-.1020
270.000	-.1500	-.1000	-.0990

MACH (2) = 3.502 BETA (1) = -6.740

X/LNP	.250	.500	.750
PHI			
.000	-.0780	-.0560	
90.000	-.0810	-.0580	-.0540
135.000	-.0610	-.0590	-.0570
180.000	-.0660	-.0580	-.0570
225.000	-.0550	-.0560	-.0580

AMES 07-707 OA12 02A UPPER MPS NOZZLE (RBQD03)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.740

X/LNP	.250	.500	.750
PHI			
270.000	-.0820	-.0570	-.0520

MACH (2) = 3.502 BETA (2) = -3.460

X/LNP	.250	.500	.750
PHI			
.000	-.0780	-.0560	
90.000	-.0790	-.0560	-.0550
135.000	-.0610	-.0560	-.0570
180.000	-.0670	-.0590	-.0550
225.000	-.0580	-.0580	-.0550
270.000	-.0860	-.0560	-.0540

MACH (2) = 3.502 BETA (3) = 3.140

X/LNP	.250	.500	.750
PHI			
.000	-.0800	-.0560	
90.000	-.0790	-.0580	-.0580
135.000	-.0620	-.0600	-.0570
180.000	-.0650	-.0570	-.0570
225.000	-.0570	-.0550	-.0560
270.000	-.0850	-.0580	-.0540

MACH (2) = 3.502 BETA (4) = 6.440

X/LNP	.250	.500	.750
PHI			
.000	-.0770	-.0590	
90.000	-.0790	-.0600	-.0590
135.000	-.0620	-.0600	-.0560
180.000	-.0650	-.0610	-.0600
225.000	-.0590	-.0590	-.0580
270.000	-.0810	-.0600	-.0570

AMES 87-707 OA12 02A UPPER MPS NOZZLE (PBQD04) (16 SEP 73

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

X/LNP	.250	.500	.750
PHI			
.000	-.1670	-.1070	
90.000	-.1430	-.1050	-.1070
135.000	-.1170	-.1090	-.1060
180.000	-.1300	-.1060	-.1060
225.000	-.1050	-.1050	-.1090
270.000	-.1570	-.1060	-.1030

MACH (1) = 2.498 BETA (2) = -3.310

X/LNP	.250	.500	.750
PHI			
.000	-.1640	-.1070	
90.000	-.1460	-.1050	-.1060
135.000	-.1160	-.1110	-.1060
180.000	-.1300	-.1070	-.1080
225.000	-.1080	-.1060	-.1080
270.000	-.1550	-.1080	-.1060

MACH (1) = 2.498 BETA (3) = 3.050

X/LNP	.250	.500	.750
PHI			
.000	-.1680	-.1140	
90.000	-.1490	-.1140	-.1140
135.000	-.1230	-.1160	-.1140
180.000	-.1360	-.1170	-.1130
225.000	-.1150	-.1130	-.1150
270.000	-.1600	-.1140	-.1130

MACH (1) = 2.498 BETA (4) = 6.240

X/LNP	.250	.500	.750
PHI			
.000	-.1670	-.1140	
90.000	-.1500	-.1130	-.1160
135.000	-.1250	-.1180	-.1150
180.000	-.1350	-.1140	-.1160
225.000	-.1130	-.1120	-.1180
270.000	-.1590	-.1160	-.1120

MACH (2) = 3.502 BETA (1) = -6.710

X/LNP	.250	.500	.750
PHI			
.000	-.0410	-.0410	
90.000	-.0410	-.0400	-.0400
135.000	-.0410	-.0400	-.0400
180.000	-.0420	-.0400	-.0380
225.000	-.0410	-.0390	-.0390

AMES 87-707 OA12 O2A UPPER MPS NOZZLE (RBQD04)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.710

X/LNP	.250	.500	.750
PHI			
270.000	-.0420	-.0400	-.0410

MACH (2) = 3.502 BETA (2) = -3.430

X/LNP	.250	.500	.750
PHI			
.000	-.0820	-.0820	
90.000	-.0840	-.0810	-.0800
135.000	-.0830	-.0820	-.0800
180.000	-.0800	-.0800	-.0800
225.000	-.0810	-.0800	-.0790
270.000	-.0830	-.0800	-.0800

MACH (2) = 3.502 BETA (3) = 3.160

X/LNP	.250	.500	.750
PHI			
.000	-.0820	-.0610	
90.000	-.0810	-.0590	-.0620
135.000	-.0670	-.0640	-.0620
180.000	-.0730	-.0640	-.0630
225.000	-.0610	-.0620	-.0620
270.000	-.0860	-.0630	-.0590

MACH (2) = 3.502 BETA (4) = 6.470

X/LNP	.250	.500	.750
PHI			
.000	-.0820	-.0620	
90.000	-.0800	-.0600	-.0620
135.000	-.0670	-.0640	-.0630
180.000	-.0710	-.0640	-.0630
225.000	-.0630	-.0620	-.0640
270.000	-.0870	-.0620	-.0590

AMES 87-707 OA12 C2A UPPER MPS NOZZLE (R8QD05) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -8.440

X/LNP	.250	.500	.750
PHI			
.000	-.1460	-.0680	
90.000	-.1170	-.0710	-.0700
135.000	-.0870	-.0730	-.0690
180.000	-.1030	-.0740	-.0740
225.000	-.0740	-.0700	-.0740
270.000	-.1330	-.0730	-.0720

MACH (1) = 2.498 BETA (2) = -3.300

X/LNP	.250	.500	.750
PHI			
.000	-.1420	-.0600	
90.000	-.1140	-.0620	-.0610
135.000	-.0810	-.0640	-.0600
180.000	-.1010	-.0660	-.0650
225.000	-.0640	-.0600	-.0640
270.000	-.1270	-.0640	-.0640

MACH (1) = 2.498 BETA (3) = -.160

X/LNP	.250	.500	.750
PHI			
.000	-.1340	-.0480	
90.000	-.1040	-.0490	-.0490
135.000	-.0700	-.0510	-.0480
180.000	-.0890	-.0520	-.0530
225.000	-.0520	-.0470	-.0530
270.000	-.1190	-.0510	-.0480

MACH (1) = 2.498 BETA (4) = 3.080

X/LNP	.250	.500	.750
PHI			
.000	-.1400	-.0550	
90.000	-.1090	-.0540	-.0560
135.000	-.0760	-.0610	-.0540
180.000	-.0950	-.0580	-.0600
225.000	-.0580	-.0530	-.0600
270.000	-.1250	-.0580	-.0560

MACH (1) = 2.498 BETA (5) = 6.290

X/LNP	.250	.500	.750
PHI			
.000	-.1450	-.0720	
90.000	-.1210	-.0700	-.0730
135.000	-.0920	-.0770	-.0700
180.000	-.1050	-.0760	-.0710
225.000	-.0770	-.0740	-.0710

AMES 87-707 OA12 02A UPPER MPS NOZZLE (RB0005)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.290

X/LNP	.250	.500	.750
PHI			
270.000	-.1330	-.0760	-.0680

MACH (2) = 3.501 BETA (1) = -6.670

X/LNP	.250	.500	.750
PHI			
.000	-.0750	-.0400	
90.000	-.0690	-.0400	-.0400
135.000	-.0470	-.0420	-.0390
180.000	-.0500	-.0400	-.0390
225.000	-.0390	-.0380	-.0400
270.000	-.0780	-.0410	-.0350

MACH (2) = 3.501 BETA (2) = -3.420

X/LNP	.250	.500	.750
PHI			
.000	-.0690	-.0300	
90.000	-.0610	-.0310	-.0300
135.000	-.0390	-.0310	-.0300
180.000	-.0430	-.0310	-.0300
225.000	-.0300	-.0290	-.0280
270.000	-.0660	-.0310	-.0250

MACH (2) = 3.501 BETA (3) = -.160

X/LNP	.250	.500	.750
PHI			
.000	-.0660	-.0240	
90.000	-.0600	-.0240	-.0240
135.000	-.0340	-.0260	-.0210
180.000	-.0580	-.0250	-.0230
225.000	-.0240	-.0210	-.0240
270.000	-.0690	-.0250	-.0210

MACH (2) = 3.501 BETA (4) = 3.160

X/LNP	.250	.500	.750
PHI			
.000	-.0700	-.0330	
90.000	-.0650	-.0350	-.0330
135.000	.0410	-.0320	-.0320
180.000	-.0440	-.0330	-.0320
225.000	-.0330	-.0340	-.0290
270.000	-.0740	-.0330	-.0290

MACH (2) = 3.501 BETA (5) = 6.530

X/LNP	.250	.500	.750
PHI			
.000	-.0750	-.0450	
90.000	-.0730	-.0460	-.0450
135.000	-.0530	-.0480	-.0450
180.000	-.0570	-.0460	-.0460
225.000	-.0460	-.0440	-.0470

AMES 87-707 OA12 02A UPPER MPS NOZZLE (88Q005)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.530

X/LNP	.250	.500	.750
PHI			
270.000	-.0790	-.0460	-.0480

AMES 87-707 OA12 02A UPPER MPS NOZZLE (RBQD06) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LNP	.250	.500	.750
PHI			
.000	-.1630	-.0940	
90.000	-.1380	-.0930	-.0930
135.000	-.1100	-.0940	-.0950
180.000	-.1250	-.0970	-.0940
225.000	-.0970	-.0930	-.0960
270.000	-.1510	-.0870	-.0930

MACH (1) = 2.498 BETA (2) = -3.340

X/LNP	.250	.500	.750
PHI			
.000	-.1570	-.0840	
90.000	-.1320	-.0850	-.0860
135.000	-.1030	-.0890	-.0840
180.000	-.1190	-.0880	-.0880
225.000	-.0870	-.0840	-.0890
270.000	-.1450	-.0870	-.0880

MACH (1) = 2.498 BETA (3) = -.160

X/LNP	.250	.500	.750
PHI			
.000	-.1480	-.0790	
90.000	-.1270	-.0800	-.0780
135.000	-.0970	-.0830	-.0780
180.000	-.1130	-.0840	-.0830
225.000	-.0830	-.0800	-.0840
270.000	-.1370	-.0820	-.0800

MACH (1) = 2.498 BETA (4) = 3.020

X/LNP	.250	.500	.750
PHI			
.000	-.1550	-.0870	
90.000	-.1300	-.0680	-.0840
135.000	-.1040	-.0890	-.0860
180.000	-.1160	-.0910	-.0880
225.000	-.0880	-.0830	-.0900
270.000	-.1410	-.0880	-.0870

MACH (1) = 2.498 BETA (5) = 6.210

X/LNP	.250	.500	.750
PHI			
.000	-.1620	-.0910	
90.000	-.1360	-.0930	-.0950
135.000	-.1090	-.0980	-.0910
180.000	-.1250	-.0970	-.0960
225.000	-.0960	-.0940	-.0980

AMES 67-707 OA12 02A UPPER MPS NOZZLE (RBQD06)

SECTION 1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.210

X/LNP	.250	.500	.750
PHI			
270.000	-.1510	-.0970	-.0940

MACH (2) = 3.501 BETA (1) = -6.750

X/LNP	.250	.500	.750
PHI			
.000	-.0790	-.0520	
90.000	-.0750	-.0540	-.0510
135.000	-.0580	-.0530	-.0510
180.000	-.0640	-.0530	-.0510
225.000	-.0510	-.0510	-.0510
270.000	-.0830	-.0520	-.0460

MACH (2) = 3.501 BETA (2) = -3.450

X/LNP	.250	.500	.750
PHI			
.000	-.0820	-.0490	
90.000	-.0760	-.0490	-.0500
135.000	-.0590	-.0520	-.0490
180.000	-.0630	-.0530	-.0500
225.000	-.0520	-.0510	-.0510
270.000	-.0830	-.0520	-.0470

MACH (2) = 3.501 BETA (3) = -.160

X/LNP	.250	.500	.750
PHI			
.000	-.0800	-.0490	
90.000	-.0740	-.0480	-.0510
135.000	-.0550	-.0510	-.0520
180.000	-.0610	-.0480	-.0490
225.000	-.0490	-.0490	-.0490
270.000	-.0810	-.0490	-.0450

MACH (2) = 3.501 BETA (4) = 3.140

X/LNP	.250	.500	.750
PHI			
.000	-.0760	-.0500	
90.000	-.0730	-.0480	-.0500
135.000	-.0570	-.0490	-.0480
180.000	-.0590	-.0510	-.0480
225.000	-.0490	-.0510	-.0510
270.000	-.0820	-.0530	-.0460

MACH (2) = 3.501 BETA (5) = 6.440

X/LNP	.250	.500	.750
PHI			
.000	-.0820	-.0560	
90.000	-.0790	-.0580	-.0570
135.000	-.0610	-.0570	-.0580
180.000	-.0670	-.0590	-.0600
225.000	-.0560	-.0560	-.0560

AMES 87-707 OA12 O2A UPPER MPS NOZZLE (RBQD06)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.301 BETA (5) = 6.440

X/LNP	.250	.500	.750
PHI			
270.000	-.0840	-.0570	-.0530

AMES 87-707 OA12 G2A UPPER MFS NOZZLE (R8D07) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -30.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

X/LNP	.250	.500	.750
PHI			
.000	-.1640	-.1000	
90.000	-.1410	-.1000	-.1010
135.000	-.1120	-.1040	-.1010
180.000	-.1270	-.1030	-.0990
225.000	-.1030	-.1010	-.1020
270.000	-.1550	-.1030	-.0970

MACH (1) = 2.498 BETA (2) = -3.320

X/LNP	.250	.500	.750
PHI			
.000	-.1620	-.1010	
90.000	-.1430	-.1010	-.1020
135.000	-.1160	-.1070	-.1020
180.000	-.1290	-.1050	-.1030
225.000	-.1030	-.1020	-.1070
270.000	-.1530	-.1060	-.1010

MACH (1) = 2.498 BETA (3) = -.150

X/LNP	.250	.500	.750
PHI			
.000	-.1570	-.1070	
90.000	-.1410	-.1070	-.1080
135.000	-.1170	-.1090	-.1080
180.000	-.1290	-.1090	-.1070
225.000	-.1080	-.1070	-.1070
270.000	-.1490	-.1080	-.1060

MACH (1) = 2.498 BETA (4) = 3.040

X/LNP	.250	.500	.750
PHI			
.000	-.1610	-.1060	
90.000	-.1420	-.1040	-.1060
135.000	-.1210	-.1060	-.1040
180.000	-.1310	-.1090	-.1060
225.000	-.1060	-.1050	-.1090
270.000	-.1560	-.1090	-.1050

MACH (1) = 2.498 BETA (5) = 6.040

X/LNP	.250	.500	.750
PHI			
.000	-.1640	-.1090	
90.000	-.1430	-.1100	-.1080
135.000	-.1220	-.1110	-.1100
180.000	-.1360	-.1110	-.1110
225.000	-.1100	-.1110	-.1120

AMES 67-70" OA12 02A UPPER MPS NOZZLE (RB8D07)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

X/LNP	.250	.500	.750
PHI			
270.000	-.1550	-.1090	-.1090

MACH (2) = 3.501 BETA (1) = -6.710

X/LNP	.250	.500	.750
PHI			
.000	-.0810	-.0490	
90.000	-.0750	-.0480	-.0510
135.000	-.0590	-.0500	-.0470
180.000	-.0630	-.0510	-.0490
225.000	-.0510	-.0510	-.0480
270.000	-.0820	-.0510	-.0460

MACH (2) = 3.501 BETA (2) = -3.440

X/LNP	.250	.500	.750
PHI			
.000	-.0840	-.0550	
90.000	-.0770	-.0570	-.0550
135.000	-.0610	-.0560	-.0550
180.000	-.0650	-.0560	-.0550
225.000	-.0540	-.0550	-.0540
270.000	-.0850	-.0540	-.0510

MACH (2) = 3.501 BETA (3) = -.150

X/LNP	.250	.500	.750
PHI			
.000	-.0870	-.0650	
90.000	-.0840	-.0610	-.0620
135.000	-.0680	-.0630	-.0620
180.000	-.0730	-.0620	-.0610
225.000	-.0640	-.0620	-.0590
270.000	-.0880	-.0640	-.0560

MACH (2) = 3.501 BETA (4) = 3.160

X/LNP	.250	.500	.750
PHI			
.000	-.0850	-.0610	
90.000	-.0800	-.0590	-.0600
135.000	-.0650	-.0610	-.0590
180.000	-.0710	-.0600	-.0620
225.000	-.0620	-.0580	-.0580
270.000	-.0880	-.0600	-.0560

MACH (2) = 3.501 BETA (5) = 6.470

X/LNP	.250	.500	.750
PHI			
.000	-.0900	-.0670	
90.000	-.0840	-.0640	-.0640
135.000	-.0710	-.0650	-.0650
180.000	-.0760	-.0650	-.0620
225.000	-.0670	-.0640	-.0620

ES 67-707 OA12 02A UPPER MPS NOZZLE (R2QD07)

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.470

X/LNP	.250	.500	.750
PHI			
270.000	-.0920	-.0670	-.0590

AMES 87-707 OA12 O2A UPPER MPS NOZZLE (RBQD08) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LNP	.250	.500	.750
PHI			
.000	-.1520	-.0920	
90.000	-.1280	-.0920	-.0930
135.000	-.1050	-.0930	-.0910
180.000	-.1170	-.0930	-.0920
225.000	-.0940	-.0900	-.0920
270.000	-.1410	-.0930	-.0910

MACH (1) = 2.498 BETA (2) = -3.300

X/LNP	.250	.500	.750
PHI			
.000	-.1480	-.0780	
90.000	-.1230	-.0800	-.0800
135.000	-.0930	-.0800	-.0800
180.000	-.1080	-.0800	-.0810
225.000	-.0790	-.0780	-.0780
270.000	-.1360	-.0800	-.0760

MACH (1) = 2.498 BETA (3) = -.160

X/LNP	.250	.500	.750
PHI			
.000	-.1430	-.0760	
90.000	-.1190	-.0740	-.0750
135.000	-.0890	-.0760	-.0750
180.000	-.1030	-.0750	-.0750
225.000	-.0750	-.0740	-.0750
270.000	-.1310	-.0750	-.0710

MACH (1) = 2.498 BETA (4) = 3.060

X/LNP	.250	.500	.750
PHI			
.000	-.1460	-.0750	
90.000	-.1200	-.0770	-.0780
135.000	-.0940	-.0810	-.0750
180.000	-.1090	-.0800	-.0790
225.000	-.0800	-.0770	-.0810
270.000	-.1350	-.0800	-.0800

MACH (1) = 2.498 BETA (5) = 6.290

X/LNP	.250	.500	.750
PHI			
.000	-.1470	-.0900	
90.000	-.1280	-.0920	-.0910
135.000	-.1020	-.0920	-.0900
180.000	-.1160	-.0920	-.0920
225.000	-.0900	-.0910	-.0920

AMES 87-707 OA12 02A UPPER MPS NOZZLE (RB0008)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.290

X/LNP	.250	.500	.750
PHI			
270.000	-.1370	-.0910	-.0930

MACH (2) = 3.501 BETA (1) = -6.670

X/LNP	.250	.500	.750
PHI			
.000	-.0810	-.0500	
90.000	-.0780	-.0540	-.0530
135.000	-.0610	-.0530	-.0520
180.000	-.0640	-.0540	-.0540
225.000	-.0540	-.0520	-.0540
270.000	-.0830	-.0540	-.0510

MACH (2) = 3.501 BETA (2) = -3.420

X/LNP	.250	.500	.750
PHI			
.000	-.0790	-.0440	
90.000	-.0740	-.0470	-.0470
135.000	-.0550	-.0480	-.0440
180.000	-.0590	-.0470	-.0470
225.000	-.0480	-.0450	-.0460
270.000	-.0800	-.0480	-.0450

MACH (2) = 3.501 BETA (3) = -.170

X/LNP	.250	.500	.750
PHI			
.000	-.0720	-.0390	
90.000	-.0640	-.0410	-.0390
135.000	-.0470	-.0380	-.0370
180.000	-.0500	-.0380	-.0370
225.000	-.0370	-.0370	-.0380
270.000	-. 10	-.0390	-.0360

MACH (2) = 3.501 BETA (4) = 3.190

X/LNP	.250	.500	.750
PHI			
.000	-.0750	-.0430	
90.000	-.0710	-.0470	-.0420
135.000	-.0510	-.0420	-.0430
180.000	-.0520	-.0430	-.0430
225.000	-.0430	-.0410	-.0410
270.000	-.0760	-.0420	-.0400

MACH (2) = 3.501 BETA (5) = 6.530

X/LNP	.250	.500	..50
PHI			
.000	-.0810	-.0550	
90.000	-.0740	-.0550	-.0540
135.000	-.0610	-.0560	-.0540
180.000	-.0640	-.0560	-.0530
225.000	-.0560	-.0530	-.0560

AMES 87-707 OA12 O2A UPPER MPS NOZZLE (RBQD08)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.530

X/LNP	.250	.500	.750
PHI			
270.000	-.0830	-.0560	-.0540

AMES [illegible] CA12C C2A UPPER MPS NOZZLE (RDQDD9) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.6490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	10.000	RUDDER =	.000
ELEVON =	10.000	RUDFLR =	40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.820

X/LNP	.250	.500	.750
PHI			
.000	-.1640	-.1020	
90.000	-.1390	-.0990	-.1010
135.000	-.1400	-.1010	-.0990
180.000	-.1260	-.1010	-.1010
225.000	-.1010	-.1000	-.1000
270.000	-.1520	-.1010	-.0970

MACH (1) = 2.498 BETA (2) = -3.340

X/LNP	.250	.500	.750
PHI			
.000	-.1630	-.0970	
90.000	-.1370	-.0970	-.0990
135.000	-.1390	-.1020	-.0990
180.000	-.1280	-.1020	-.1000
225.000	-.1000	-.0990	-.1020
270.000	-.1510	-.1020	-.0970

MACH (1) = 2.498 BETA (3) = -.160

X/LNP	.250	.500	.750
PHI			
.000	-.1540	-.0990	
90.000	-.1330	-.0960	-.0990
135.000	-.1230	-.0990	-.0970
180.000	-.1200	-.1000	-.1000
225.000	-.0960	-.0960	-.0990
270.000	-.1460	-.0980	-.0970

MACH (1) = 2.498 BETA (4) = 3.020

X/LNP	.250	.500	.750
PHI			
.000	-.1560	-.1070	
90.000	-.1430	-.1070	-.1060
135.000	-.1170	-.1080	-.1070
180.000	-.1260	-.1060	-.1070
225.000	-.1070	-.1050	-.1070
270.000	-.1490	-.1070	-.1040

MACH (1) = 2.498 BETA (5) = 6.200

X/LNP	.250	.500	.750
PHI			
.000	-.1570	-.1140	
90.000	-.1470	-.1160	-.1150
135.000	-.1240	-.1150	-.1150
180.000	-.1320	-.1130	-.1170
225.000	-.1140	-.1120	-.1150

AMES 67-707 OA12 O2A UPPER MPS NOZZLE (RBQD09)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

X/LNP	.250	.500	.750
PHI			
270.000	-.1510	-.1450	-.1120

MACH (2) = 3.501 BETA (1) = -6.750

X/LNP	.250	.500	.750
PHI			
.000	-.0870	-.0620	
90.000	-.0810	-.0620	-.0640
135.000	-.0680	-.0630	-.0610
180.000	-.0730	-.0640	-.0620
225.000	-.0620	-.0640	-.0630
270.000	-.0910	-.0640	-.0610

MACH (2) = 3.501 BETA (2) = -3.450

X/LNP	.250	.500	.750
PHI			
.000	-.0860	-.0610	
90.000	-.0820	-.0620	-.0610
135.000	-.0650	-.0610	-.0630
180.000	-.0700	-.0610	-.0640
225.000	-.0610	-.0610	-.0610
270.000	-.0890	-.0610	-.0580

MACH (2) = 3.501 BETA (3) = -.160

X/LNP	.250	.500	.750
PHI			
.000	-.0790	-.0540	
90.000	-.0750	-.0560	-.0560
135.000	-.0620	-.0560	-.0560
180.000	-.0640	-.0580	-.0560
225.000	-.0570	-.0560	-.0560
270.000	-.0810	-.0570	-.0540

MACH (2) = 3.501 BETA (4) = 3.130

X/LNP	.250	.500	.750
PHI			
.000	-.0870	-.0670	
90.000	-.0850	-.0680	-.0660
135.000	-.0720	-.0690	-.0680
180.000	-.0720	-.0690	-.0670
225.000	-.0670	-.0650	-.0690
270.000	-.0900	-.0670	-.0630

MACH (2) = 3.501 BETA (5) = 6.440

X/LNP	.250	.500	.750
PHI			
.000	-.0900	-.0710	
90.000	-.0850	-.0710	-.0700
135.000	-.0750	-.0700	-.0700
180.000	-.0770	-.0710	-.0690
225.000	-.0700	-.0690	-.0700

AMES 67-707 OA12 32A UPPER MPS NOZZLE (F89D09)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.440

X/LNP	.250	.500	.750
PHI			
270.000	-.0910	-.0720	-.0680

AMES 87-707 OA12 02A UPPER MPS NOZZLE (RBOD10) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

X/LNP	.250	.500	.750
PHI			
.000	-.1650	-.1100	
90.000	-.1460	-.1100	-.1090
135.000	-.1470	-.1120	-.1100
180.000	-.1360	-.1130	-.1110
225.000	-.1100	-.1090	-.1110
270.000	-.1560	-.1120	-.1080

MACH (1) = 2.498 BETA (2) = -3.320

X/LNP	.250	.500	.750
PHI			
.000	-.1580	-.1090	
90.000	-.1420	-.1090	-.1090
135.000	-.1430	-.1120	-.1090
180.000	-.1300	-.1120	-.1090
225.000	-.1090	-.1100	-.1100
270.000	-.1490	-.1090	-.1090

MACH (1) = 2.498 BETA (3) = -.160

X/LNP	.250	.500	.750
PHI			
.000	-.1630	-.1200	
90.000	-.1470	-.1190	-.1200
135.000	-.1470	-.1220	-.1210
180.000	-.1340	-.1210	-.1210
225.000	-.1210	-.1200	-.1210
270.000	-.1550	-.1200	-.1170

MACH (1) = 2.498 BETA (4) = 3.040

X/LNP	.250	.500	.750
PHI			
.000	-.1670	-.1180	
90.000	-.1500	-.1200	-.1190
135.000	-.1520	-.1210	-.1180
180.000	-.1390	-.1210	-.1200
225.000	-.1210	-.1200	-.1220
270.000	-.1590	-.1210	-.1180

MACH (1) = 2.498 BETA (5) = 6.240

X/LNP	.250	.500	.750
PHI			
.000	-.1730	-.1260	
90.000	-.1560	-.1260	-.1260
135.000	-.1540	-.1270	-.1240
180.000	-.1440	-.1260	-.1240
225.000	-.1240	-.1250	-.1250

AMES 87-707 OA12 02A UPPER MPS NOZZLE (RBQD10)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

X/LNP	.250	.500	.750
PHI			
270.000	-.1650	-.1250	-.1230

MACH (2) = 3.501 BETA (1) = -6.710

X/LNP	.250	.500	.750
PHI			
.000	-.0850	-.0600	
90.000	-.0820	-.0600	-.0620
135.000	-.0580	-.0600	-.0600
180.000	-.0720	-.0620	-.0620
225.000	-.0600	-.0610	-.0600
270.000	-.0880	-.0600	-.0600

MACH (2) = 3.501 BETA (2) = -3.440

X/LNP	.250	.500	.750
PHI			
.000	-.0870	-.0640	
90.000	-.0850	-.0640	-.0640
135.000	-.0720	-.0650	-.0630
180.000	-.0730	-.0640	-.0630
225.000	-.0630	-.0630	-.0610
270.000	-.0870	-.0630	-.0590

MACH (2) = 3.501 BETA (3) = -.150

X/LNP	.250	.500	.750
PHI			
.000	-.0840	-.0710	
90.000	-.0850	-.0670	-.0670
135.000	-.0720	-.0710	-.0680
180.000	-.0780	-.0690	-.0680
225.000	-.0710	-.0700	-.0670
270.000	-.0910	-.0700	-.0650

MACH (2) = 3.501 BETA (4) = 3.160

X/LNP	.250	.500	.750
PHI			
.000	-.0890	-.0700	
90.000	-.0870	-.0680	-.0690
135.000	-.0770	-.0700	-.0690
180.000	-.0800	-.0720	-.0690
225.000	-.0680	-.0700	-.0690
270.000	-.0890	-.0700	-.0670

MACH (2) = 3.501 BETA (5) = 6.480

X/LNP	.250	.500	.750
PHI			
.000	-.0910	-.0740	
90.000	-.0890	-.0730	-.0710
135.000	-.0800	-.0740	-.0710
180.000	-.0810	-.0720	-.0710
225.000	-.0720	-.0710	-.0720

AMES 87-707 CA12 CEA UPPER MPS NOZZLE (RBQD10)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.460

X/LNP	.250	.500	.750
PHI			
270.000	-.0933	-.0710	-.0680

AMES 87-707 OA12 O2A UPPER MPS NOZZLE (RBQD11) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = -20.000 RUDFLP = 40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LNP	.250	.500	.750
PHI			
.000	-.1440	-.0780	
90.000	-.1190	-.0780	-.0750
135.000	-.1350	-.0790	-.0750
180.000	-.1010	-.0790	-.0780
225.000	-.0770	-.0750	-.0810
270.000	-.1290	-.0780	-.0770

MACH (1) = 2.498 BETA (2) = -3.300

X/LNP	.250	.500	.750
PHI			
.000	-.1330	-.0620	
90.000	-.1060	-.0610	-.0610
135.000	-.1210	-.0640	-.0620
180.000	-.0890	-.0650	-.0620
225.000	-.0620	-.0600	-.0650
270.000	-.1160	-.0610	-.0610

MACH (1) = 2.498 BETA (3) = -.220

X/LNP	.250	.500	.750
PHI			
.000	-.1260	-.0570	
90.000	-.1020	-.0580	-.0580
135.000	-.1140	-.0610	-.0570
180.000	-.0830	-.0620	-.0590
225.000	-.0590	-.0570	-.0610
270.000	-.1090	-.0600	-.0600

MACH (1) = 2.498 BETA (4) = 3.070

X/LNP	.250	.500	.750
PHI			
.000	-.1300	-.0630	
90.000	-.1050	-.0650	-.0630
135.000	-.1170	-.0670	-.0640
180.000	-.0880	-.0670	-.0640
225.000	-.0640	-.0630	-.0670
270.000	-.1150	-.0650	-.0640

MACH (1) = 2.498 BETA (5) = 6.300

X/LNP	.250	.500	.750
PHI			
.000	-.1420	-.0840	
90.000	-.1230	-.0850	-.0850
135.000	-.1280	-.0880	-.0840
180.000	-.1050	-.0880	-.0850
225.000	-.0850	-.0850	-.0850

AMES 87-707 OA12 O2A UPPER MPS NOZZLE (RBQD11)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.300

X/LNP	.250	.500	.750
PHI			
270.000	-.1290	-.0850	-.0860

MACH (2) = 3.502 BETA (1) = -6.670

X/LNP	.250	.500	.750
PHI			
.000	-.0810	-.0420	
90.000	-.0670	-.0420	-.0420
135.000	-.0630	-.0410	-.0410
180.000	-.0510	-.0420	-.0420
225.000	-.0410	-.0410	-.0410
270.000	-.0750	-.0420	-.0360

MACH (2) = 3.502 BETA (2) = -3.410

X/LNP	.250	.500	.750
PHI			
.000	-.0780	-.0360	
90.000	-.0630	-.0370	-.0360
135.000	-.0600	-.0370	-.0370
180.000	-.0480	-.0370	-.0380
225.000	-.0340	-.0350	-.0370
270.000	-.0700	-.0350	-.0310

MACH (2) = 3.502 BETA (3) = -.160

X/LNP	.250	.500	.750
PHI			
.000	-.0750	-.0300	
90.000	-.0620	-.0330	-.0300
135.000	-.0540	-.0300	-.0300
180.000	-.0430	-.0300	-.0300
225.000	-.0300	-.0280	-.0280
270.000	-.0660	-.0290	-.0240

MACH (2) = 3.502 BETA (4) = 3.180

X/LNP	.250	.500	.750
PHI			
.000	-.0780	-.0370	
90.000	-.0650	-.0400	-.0360
135.000	-.0590	-.0390	-.0370
180.000	-.0480	-.0370	-.0370
225.000	-.0350	-.0350	-.0360
270.000	-.0700	-.0360	-.0310

MACH (2) = 3.502 BETA (5) = 6.330

X/LNP	.250	.500	.750
PHI			
.000	-.0810	-.0510	
90.000	-.0700	-.0510	-.0510
135.000	-.0650	-.0510	-.0510
180.000	-.0580	-.0510	-.0490
225.000	-.0490	-.0490	-.0500

AMES 87-707 OA12 OPA UPPER MPS NOZZLE (RBQD11)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 6.530

X/LNP	.250	.500	.750
PHI			
270.000	-.0760	-.0510	-.0440

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 97-707 OA12 OEA UPPER MPS NOZZLE (RBQD12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.6490 INCHES YMRP = .0000 INCHES
BREF = 39.6490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.530

X/LNP	.250	.500	.750
PHI			
.000	-.1500	-.0940	
90.000	-.1310	-.0940	-.0950
135.000	-.1400	-.0960	-.0940
180.000	-.1130	-.0960	-.0940
225.000	-.0950	-.0950	-.0970
270.000	-.1390	-.0960	-.0930

MACH (1) = 2.498 BETA (2) = -3.340

X/LNP	.250	.500	.750
PHI			
.000	-.1400	-.0910	
90.000	-.1230	-.0910	-.0910
135.000	-.1320	-.0930	-.0890
180.000	-.1060	-.0920	-.0910
225.000	-.0900	-.0880	-.0920
270.000	-.1290	-.0900	-.0880

MACH (1) = 2.498 BETA (3) = -.170

X/LNP	.250	.500	.750
PHI			
.000	-.1330	-.0880	
90.000	-.1180	-.0890	-.0880
135.000	-.1250	-.0900	-.0870
180.000	-.1020	-.0880	-.0880
225.000	-.0850	-.0850	-.0880
270.000	-.1230	-.0870	-.0850

MACH (1) = 2.498 BETA (4) = 3.020

X/LNP	.250	.500	.750
PHI			
.000	-.1390	-.0930	
90.000	-.1240	-.0940	-.0920
135.000	-.1330	-.0940	-.0930
180.000	-.1090	-.0950	-.0930
225.000	-.0950	-.0930	-.0950
270.000	-.1290	-.0940	-.0920

MACH (1) = 2.498 BETA (5) = 6.200

X/LNP	.250	.500	.750
PHI			
.000	-.1490	-.1040	
90.000	-.1330	-.1030	-.1050
135.000	-.1410	-.1040	-.1010
180.000	-.1200	-.1050	-.1030
225.000	-.1050	-.1020	-.1050

AMES 87-707 OA12 O2A UPPER MPS NOZZLE (RBQD12)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

X/LNP	.250	.500	.750
PHI			
270.000	-.1410	-.1050	-.1010

MACH (2) = 3.502 BETA (1) = -6.750

X/LNP	.250	.500	.750
PHI			
.000	-.0950	-.0610	
90.000	-.0820	-.0580	-.0600
135.000	-.0760	-.0600	-.0610
180.000	-.0680	-.0600	-.0610
225.000	-.0610	-.0610	-.0590
270.000	-.0910	-.0900	-.0560

MACH (2) = 3.502 BETA (2) = -3.460

X/LNP	.250	.500	.750
PHI			
.000	-.0630	-.0510	
90.000	-.0720	-.0520	-.0530
135.000	-.0710	-.0540	-.0510
180.000	-.0610	-.0630	-.0540
225.000	-.0540	-.0520	-.0510
270.000	-.0820	-.0540	-.0490

MACH (2) = 3.502 BETA (3) = -.160

X/LNP	.250	.500	.750
PHI			
.000	-.0920	-.0530	
90.000	-.0710	-.0550	-.0500
135.000	-.0670	-.0500	-.0530
180.000	-.0600	-.0510	-.0510
225.000	-.0530	-.0510	-.0510
270.000	-.0800	-.0520	-.0465

MACH (2) = 3.502 BETA (4) = 5.140

X/LNP	.250	.500	.750
PHI			
.000	-.0900	-.0610	
90.000	-.0770	-.0580	-.0600
135.000	-.0730	-.0610	-.0580
180.000	-.0690	-.0610	-.0620
225.000	-.0600	-.0610	-.0580
270.000	-.0850	-.0610	-.0560

MACH (2) = 3.502 BETA (5) = 6.450

X/LNP	.250	.500	.750
PHI			
.000	-.0910	-.0650	
90.000	-.0810	-.0650	-.0650
135.000	-.0790	-.0660	-.0650
180.000	-.0710	-.0650	-.0650
225.000	-.0650	-.0650	-.0650

AMES 67-707 OA12 02A UPPER MPS NOZZLE (RB0D12)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 6.430

X/LNP	.250	.500	.750
PHI			
270.000	-.0880	-.0660	-.0610

AMES 87-707 OA12 02A UPPER MPS NOZZLE (RBQD13) (16 MAY [illegible])

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	.000
ELEVON =	-20.000	RUDFLR =	40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

X/LNP	.250	.500	.750
PHI			
.000	-.1650	-.1140	
90.000	-.1460	-.1130	-.1120
135.000	-.1560	-.1150	-.1120
180.000	-.1320	-.1170	-.1150
225.000	-.1150	-.1130	-.1170
270.000	-.1580	-.1160	-.1180

MACH (1) = 2.498 BETA (2) = -3.330

X/LNP	.250	.500	.750
PHI			
.000	-.1660	-.1160	
90.000	-.1490	-.1160	-.1160
135.000	-.1570	-.1180	-.1160
180.000	-.1330	-.1210	-.1170
225.000	-.1180	-.1170	-.1170
270.000	-.1600	-.1180	-.1180

MACH (1) = 2.498 BETA (3) = -.160

X/LNP	.250	.500	.750
PHI			
.000	-.1700	-.1260	
90.000	-.1550	-.1270	-.1270
135.000	-.1640	-.1290	-.1260
180.000	-.1420	-.1300	-.1290
225.000	-.1290	-.1270	-.1280
270.000	-.1630	-.1270	-.1250

MACH (1) = 2.498 BETA (4) = 3.040

X/LNP	.250	.500	.750
PHI			
.000	-.1650	-.1230	
90.000	-.1520	-.1240	-.1210
135.000	-.1600	-.1230	-.1230
180.000	-.1370	-.1240	-.1240
225.000	-.1220	-.1230	-.1240
270.000	-.1590	-.1230	-.1220

MACH (1) = 2.498 BETA (5) = 6.240

X/LNP	.250	.500	.750
PHI			
.000	-.1710	-.1290	
90.000	-.1570	-.1290	-.1300
135.000	-.1650	-.1310	-.1290
180.000	-.1440	-.1300	-.1310
225.000	-.1280	-.1300	-.1310

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 C2A UPPER MPS NOZZLE (RB0D13)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

X/LNP	.250	.500	.750
PHI			
270.000	-.1650	-.1300	-.1270

MACH (2) = 3.502 BETA (1) = -6.710

X/LNP	.250	.500	.750
PHI			
.000	-.0890	-.0580	
90.000	-.0760	-.0580	-.0570
135.000	-.0760	-.0590	-.0560
180.000	-.0680	-.0580	-.0600
225.000	-.0580	-.0590	-.0590
270.000	-.0840	-.0590	-.0570

MACH (2) = 3.502 BETA (2) = -3.440

X/LNP	.250	.500	.750
PHI			
.000	-.0920	-.0650	
90.000	-.0830	-.0650	-.0640
135.000	-.0810	-.0640	-.0640
180.000	-.0720	-.0650	-.0640
225.000	-.0650	-.0640	-.0620
270.000	-.0900	-.0660	-.0610

MACH (2) = 3.502 BETA (3) = -.160

X/LNP	.250	.500	.750
PHI			
.000	-.0940	-.0690	
90.000	-.0850	-.0690	-.0700
135.000	-.0810	-.0690	-.0690
180.000	-.0750	-.0690	-.0680
225.000	-.0690	-.0680	-.0670
270.000	-.0920	-.0690	-.0630

MACH (2) = 3.502 BETA (4) = 3.160

X/LNP	.250	.500	.750
PHI			
.000	-.0920	-.0690	
90.000	-.0850	-.0680	-.0680
135.000	-.0810	-.0690	-.0670
180.000	-.0750	-.0670	-.0670
225.000	-.0670	-.0690	-.0670
270.000	-.0910	-.0700	-.0640

MACH (2) = 3.502 BETA (5) = 6.470

X/LNP	.250	.500	.750
PHI			
.000	-.0950	-.0710	
90.000	-.0870	-.0720	-.0710
135.000	-.0870	-.0730	-.0710
180.000	-.0800	-.0740	-.0730
225.000	-.0730	-.0730	-.0720

AMES 87-707 OA12 O2A UPPER MPS NOZZLE (RB0013)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 6.470

X/LNP	.250	.500	.750
PHI			
270.000	-.0930	-.0720	-.0680

AMES 87-707 OA12 02A UPPER MPS NOZZLE (RBQD14) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	.000
ELEVON =	-40.000	RUDFLR =	40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LNP	.250	.500	.750
PHI			
.000	-.1480	-.0740	
90.000	-.1190	-.0740	-.0740
135.000	-.1510	-.0780	-.0740
180.000	-.1170	-.0780	-.0780
225.000	-.0780	-.0750	-.0770
270.000	-.1370	-.0770	-.0760

MACH (1) = 2.498 BETA (2) = -3.300

X/LNP	.250	.500	.750
PHI			
.000	-.1480	-.0630	
90.000	-.1130	-.0630	-.0640
135.000	-.1440	-.0670	-.0640
180.000	-.1100	-.0660	-.0660
225.000	-.0640	-.0620	-.0670
270.000	-.1330	-.0660	-.0620

MACH (1) = 2.498 BETA (3) = -.170

X/LNP	.250	.500	.750
PHI			
.000	-.1380	-.0590	
90.000	-.1070	-.0600	-.0590
135.000	-.1380	-.0640	-.0580
180.000	-.1070	-.0600	-.0650
225.000	-.0610	-.0570	-.0600
270.000	-.1270	-.0610	-.0580

MACH (1) = 2.498 BETA (4) = 3.060

X/LNP	.250	.500	.750
PHI			
.000	-.1400	-.0620	
90.000	-.1100	-.0620	-.0670
135.000	-.1450	-.0670	-.0670
180.000	-.1020	-.0650	-.0670
225.000	-.0630	-.0660	-.0670
270.000	-.1290	-.0630	-.0600

MACH (1) = 2.498 BETA (5) = 6.290

X/LNP	.250	.500	.750
PHI			
.000	-.1410	-.0790	
90.000	-.1170	-.0800	-.0790
135.000	-.1410	-.0800	-.0770
180.000	-.1190	-.0800	-.0780
225.000	-.0780	-.0780	-.0800

AMES 87-70T OA12 O2A UPPER MPS NOZZLE (PBS014)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (5) = 6.290

X/LNP	.250	.500	.750
PHI			
270.000	-.1320	-.0800	-.0750

MACH (2) = 3.503 BETA (1) = -6.670

X/LNP	.250	.500	.750
PHI			
.000	-.0840	-.0440	
90.000	-.0670	-.0430	-.0430
135.000	-.0780	-.0430	-.0410
180.000	-.0560	-.0430	-.0420
225.000	-.0440	-.0430	-.0430
270.000	-.0790	-.0440	-.0380

MACH (2) = 3.503 BETA (2) = -3.420

X/LNP	.250	.500	.750
PHI			
.000	-.0820	-.0350	
90.000	-.0640	-.0360	-.0340
135.000	-.0730	-.0360	-.0340
180.000	-.0530	-.0340	-.0360
225.000	-.0350	-.0340	-.0350
270.000	-.0730	-.0370	-.0320

MACH (2) = 3.503 BETA (3) = -.170

X/LNP	.250	.500	.750
PHI			
.000	-.0820	-.0340	
90.000	-.0620	-.0340	-.0340
135.000	-.0710	-.0320	-.0300
180.000	-.0490	-.0330	-.0320
225.000	-.0320	-.0330	-.0320
270.000	-.0720	-.0330	-.0280

MACH (2) = 3.503 BETA (4) = 3.180

X/LNP	.250	.500	.750
PHI			
.000	-.0850	-.0390	
90.000	-.0670	-.0400	-.0380
135.000	-.0710	-.0370	-.0380
180.000	-.0530	-.0380	-.0380
225.000	-.0390	-.0360	-.0350
270.000	-.0760	-.0390	-.0310

MACH (2) = 3.503 BETA (5) = 6.520

X/LNP	.250	.500	.750
PHI			
.000	-.0860	-.0490	
90.000	-.0710	-.0500	-.0500
135.000	-.0740	-.0480	-.0510
180.000	-.0600	-.0500	-.0480
225.000	-.0490	-.0490	-.0500

AMES 87-707 OA12 02A UPPER MPS NOZZLE (RBQD14)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (5) = 6.520

X/LNP	.250	.500	.750
PHI			
270.000	-.0800	-.0500	-.0440

AMES 67-707 CA12 C2A UPPER MPS NOZZLE (PB3D15) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.2490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	10.000	RUDDER =	.000
ELEVON =	-40.000	RUDFLR =	40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LNP	.250	.500	.750
PHI			
.000	-.1470	-.0870	
90.000	-.1220	-.0850	-.0860
135.000	-.1500	-.0880	-.0860
180.000	-.1170	-.0870	-.0870
225.000	-.0850	-.0860	-.0880
270.000	-.1400	-.0870	-.0850

MACH (1) = 2.498 BETA (2) = -3.340

X/LNP	.250	.500	.750
PHI			
.000	-.1470	-.0850	
90.000	-.1230	-.0870	-.0850
135.000	-.1520	-.0890	-.0850
180.000	-.1190	-.0870	-.0870
225.000	-.0870	-.0860	-.0900
270.000	-.1390	-.0880	-.0870

MACH (1) = 2.498 BETA (3) = -.170

X/LNP	.250	.500	.750
PHI			
.000	-.1470	-.0870	
90.000	-.1240	-.0870	-.0850
135.000	-.1500	-.0870	-.0830
180.000	-.1140	-.0870	-.0860
225.000	-.0850	-.0840	-.0860
270.000	-.1370	-.0860	-.0820

MACH (1) = 2.498 BETA (4) = 3.020

X/LNP	.250	.500	.750
PHI			
.000	-.1500	-.0950	
90.000	-.1290	-.0960	-.0940
135.000	-.1550	-.0970	-.0950
180.000	-.1220	-.0970	-.0950
225.000	-.0950	-.0950	-.0970
270.000	-.1400	-.0970	-.0940

MACH (1) = 2.498 BETA (5) = 6.200

X/LNP	.250	.500	.750
PHI			
.000	-.1510	-.1030	
90.000	-.1320	-.1020	-.1020
135.000	-.1530	-.1020	-.1030
180.000	-.1260	-.1020	-.1030
225.000	-.1000	-.0990	-.1030

AMES 67-707 OA12 O2A UPPER MPS NOZZLE (RBQD15)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

X/LNP	.250	.500	.750
PHI			
270.000	-.1420	-.1010	-.0990

MACH (2) = 3.503 BETA (1) = -6.750

X/LNP	.250	.500	.750
PHI			
.000	-.0920	-.0550	
90.000	-.0790	-.0540	-.0550
135.000	-.0870	-.0570	-.0540
180.000	-.0700	-.0570	-.0540
225.000	-.0550	-.0550	-.0530
270.000	-.0850	-.0560	-.0500

MACH (2) = 3.503 BETA (2) = -3.460

X/LNP	.250	.500	.750
PHI			
.000	-.0880	-.0540	
90.000	-.0760	-.0530	-.0540
135.000	-.0840	-.0560	-.0540
180.000	-.0630	-.0560	-.0540
225.000	-.0530	-.0530	-.0550
270.000	-.0820	-.0540	-.0510

MACH (2) = 3.503 BETA (3) = -.160

X/LNP	.250	.500	.750
PHI			
.000	-.0900	-.0550	
90.000	-.0770	-.0570	-.0540
135.000	-.0830	-.0570	-.0530
180.000	-.0660	-.0560	-.0530
225.000	-.0530	-.0530	-.0540
270.000	-.0850	-.0530	-.0480

MACH (2) = 3.503 BETA (4) = 3.130

X/LNP	.250	.500	.750
PHI			
.000	-.0900	-.0600	
90.000	-.0800	-.0610	-.0600
135.000	-.0850	-.0600	-.0600
180.000	-.0720	-.0600	-.0590
225.000	-.0590	-.0590	-.0620
270.000	-.0840	-.0580	-.0580

MACH (2) = 3.503 BETA (5) = 6.430

X/LNP	.250	.500	.750
PHI			
.000	-.0960	-.0700	
90.000	-.0840	-.0710	-.0700
135.000	-.0900	-.0680	-.0700
180.000	-.0770	-.0680	-.0680
225.000	-.0700	-.0680	-.0690

AMES 87-707 OA12 02A UPPER MPS NOZZLE (RBOD15)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (5) = 6.430

X/LNP	.250	.500	.750
PHI			
270.000	-.0950	-.0690	-.0660

DATE 10 SEP 73 TABULATED PRESSURE DATA - CA12C

A-ES 87-707 CA12C C2A UPPER MPS NOZZLE (RBQ016) (16 MAY 75)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	.000
ELEVON =	-40.000	RUDFLR =	40.000

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

X/LNP	.250	.500	.750
PHI			
.000	-.1690	-.1110	
90.000	-.1460	-.1120	-.1100
135.000	-.1710	-.1110	-.1110
180.000	-.1370	-.1130	-.1100
225.000	-.1120	-.1100	-.1130
270.000	-.1600	-.1110	-.1090

MACH (1) = 2.498 BETA (2) = -3.320

X/LNP	.250	.500	.750
PHI			
.000	-.1700	-.1150	
90.000	-.1500	-.1160	-.1150
135.000	-.1730	-.1190	-.1150
180.000	-.1400	-.1200	-.1160
225.000	-.1180	-.1170	-.1180
270.000	-.1600	-.1150	-.1150

MACH (1) = 2.498 BETA (3) = -.160

X/LNP	.250	.500	.750
PHI			
.000	-.1700	-.1220	
90.000	-.1510	-.1220	-.1230
135.000	-.1720	-.1240	-.1230
180.000	-.1440	-.1240	-.1230
225.000	-.1220	-.1210	-.1250
270.000	-.1600	-.1220	-.1200

MACH (1) = 2.498 BETA (4) = 3.040

X/LNP	.250	.500	.750
PHI			
.000	-.1710	-.1210	
90.000	-.1530	-.1230	-.1220
135.000	-.1760	-.1250	-.1220
180.000	-.1460	-.1240	-.1250
225.000	-.1240	-.1240	-.1250
270.000	-.1640	-.1240	-.1230

MACH (1) = 2.498 BETA (5) = 6.240

X/LNP	.250	.500	.750
PHI			
.000	-.1690	-.1240	
90.000	-.1530	-.1240	-.1240
135.000	-.1710	-.1250	-.1210
180.000	-.1450	-.1260	-.1260
225.000	-.1250	-.1240	-.1250

AMES 87-707 OA12 O2A UPPER MPS NOZZLE (RBQD16)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 3.240

X/LNP	.250	.500	.750
PHI			
270.000	-.1620	-.1260	-.1230

MACH (2) = 3.503 BETA (1) = -6.720

X/LNP	.250	.500	.750
PHI			
.000	-.0940	-.0590	
90.000	-.0790	-.0560	-.0590
135.000	-.0930	-.0600	-.0590
180.000	-.0710	-.0580	-.0590
225.000	-.0580	-.0570	-.0590
270.000	-.0870	-.0580	-.0540

MACH (2) = 3.503 BETA (2) = -3.440

X/LNP	.250	.500	.750
PHI			
.000	-.0910	-.0630	
90.000	-.0810	-.0620	-.0620
135.000	-.0890	-.0630	-.0620
180.000	-.0740	-.0650	-.0610
225.000	-.0650	-.0630	-.0610
270.000	-.0900	-.0650	-.0590

MACH (2) = 3.503 BETA (3) = -.160

X/LNP	.250	.500	.750
PHI			
.000	-.0910	-.0680	
90.000	-.0810	-.0660	-.0680
135.000	-.0860	-.0680	-.0660
180.000	-.0750	-.0670	-.0630
225.000	-.0670	-.0680	-.0650
270.000	-.0890	-.0680	-.0610

MACH (2) = 3.505 BETA (4) = 3.150

X/LNP	.250	.500	.750
PHI			
.000	-.0940	-.0680	
90.000	-.0850	-.0670	-.0670
135.000	-.0910	-.0700	-.0660
180.000	-.0780	-.0690	-.0670
225.000	-.0690	-.0680	-.0670
270.000	-.0920	-.0700	-.0650

MACH (2) = 3.503 BETA (5) = 6.470

X/LNP	.250	.500	.750
PHI			
.000	-.0970	-.0690	
90.000	-.0880	-.0680	-.0670
135.000	-.0940	-.0700	-.0690
180.000	-.0790	-.0710	-.0690
225.000	-.0690	-.0690	-.0680

AMES 87-707 OA12 O2A UPPER MPS NOZZLE (RBQD16)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (5) = 6.470

X/LNP	.250	.500	.750
PHI			
270.000	-.0930	-.0700	-.0630

AMES 87-707 OA12 O2A UPPER MPS NOZZLE (RBGD17) (16 [illegible] 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000
ELEVON = .000 RUDFLP = 40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = 15.200

X/LNP	.250	.500	.750
PHI			
.000	-.1670	-.0910	
90.000	-.1370	-.0920	-.0920
135.000	-.1630	-.0920	-.0910
180.000	-.1300	-.0930	-.0890
225.000	-.0920	-.0880	-.0690
270.000	-.1560	-.0920	-.0840

MACH (1) = 2.498 ALPHA (2) = 20.250

X/LNP	.250	.500	.750
PHI			
.000	-.1590	-.1090	
90.000	-.1390	-.1090	-.1100
135.000	-.1580	-.1110	-.1080
180.000	-.1320	-.1100	-.1090
225.000	-.1080	-.1050	-.1100
270.000	-.1500	-.1080	-.1050

MACH (1) = 2.498 ALPHA (3) = 25.180

X/LNP	.250	.500	.750
PHI			
.000	-.1720	-.1150	
90.000	-.1500	-.1170	-.1150
135.000	-.1710	-.1180	-.1160
180.000	-.1400	-.1190	-.1180
225.000	-.1160	-.1150	-.1180
270.000	-.1620	-.1170	-.1140

MACH (1) = 2.498 ALPHA (4) = 30.150

X/LNP	.250	.500	.750
PHI			
.000	-.1650	-.1120	
90.000	-.1470	-.1130	-.1140
135.000	-.1650	-.1160	-.1130
180.000	-.1380	-.1150	-.1160
225.000	-.1130	-.1120	-.1150
270.000	-.1590	-.1130	-.1120

MACH (1) = 2.498 ALPHA (5) = 35.290

X/LNP	.250	.500	.750
PHI			
.000	-.1710	-.1180	
90.000	-.1520	-.1180	-.1190
135.000	-.1710	-.1190	-.1170
180.000	-.1430	-.1220	-.1180
225.000	-.1180	-.1160	-.1000

AMES 67-707 OA12 OZA UPPER MPS NOZZLE (RBQD17)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (5) = 35.290

X/LNP	.250	.500	.750
PHI			
270.000	-.1670	-.1180	-.1060

MACH (1) = 2.498 ALPHA (6) = 38.670

X/LNP	.250	.500	.750
PHI			
.000	-.1720	-.1200	
90.000	-.1530	-.1200	-.1190
135.000	-.1720	-.1220	-.1190
180.000	-.1450	-.1220	-.1200
225.000	-.1210	-.1200	-.1210
270.000	-.1640	-.1200	-.1190

MACH (2) = 3.501 ALPHA (1) = 15.160

X/LNP	.250	.500	.750
PHI			
.000	-.0930	-.0570	
90.000	-.0810	-.0570	-.0590
135.000	-.0860	-.0580	-.0560
180.000	-.0690	-.0590	-.0570
225.000	-.0580	-.0590	-.0560
270.000	-.0900	-.0590	-.0520

MACH (2) = 3.501 ALPHA (2) = 20.230

X/LNP	.250	.500	.750
PHI			
.000	-.0920	-.0640	
90.000	-.0830	-.0640	-.0640
135.000	-.0860	-.0640	-.0640
180.000	-.0710	-.0660	-.0650
225.000	-.0640	-.0660	-.0650
270.000	-.0900	-.0670	-.0610

MACH (2) = 3.501 ALPHA (3) = 25.240

X/LNP	.250	.500	.750
PHI			
.000	-.0910	-.0590	
90.000	-.0800	-.0600	-.0600
135.000	-.0850	-.0600	-.0590
180.000	-.0680	-.0610	-.0590
225.000	-.0580	-.0570	-.0570
270.000	-.0860	-.0590	-.0530

MACH (2) = 3.501 ALPHA (4) = 30.110

X/LNP	.250	.500	.750
PHI			
.000	-.0880	-.0550	
90.000	-.0770	-.0550	-.0530
135.000	-.0860	-.0580	-.0540
180.000	-.0660	-.0570	-.0550
225.000	-.0560	-.0550	-.0560

AMES 87-707 OA1. 02A UPPER MPS NOZZLE (RBGD17)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (4) = 30.110

X/LNP	.250	.500	.750
PHI			
270.000	-.0870	-.0550	-.0510

MACH (2) = 3.501 ALPHA (5) = 35.250

X/LNP	.250	.500	.750
PHI			
.000	-.0940	-.0520	
90.000	-.0770	-.0510	-.0520
135.000	-.0910	-.0520	-.0520
180.000	-.0870	-.0550	-.0510
225.000	-.0510	-.0510	-.0510
270.000	-.0860	-.0510	-.0460

MACH (2) = 3.501 ALPHA (6) = 38.570

X/LNP	.250	.500	.750
PHI			
.000	-.0890	-.0450	
90.000	-.0720	-.0470	-.0430
135.000	-.0920	-.0460	-.0430
180.000	-.0900	-.0460	-.0440
225.000	-.0440	-.0440	-.0430
270.000	-.0810	-.0430	-.0390

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A UPPER MPS NOZZLE (RBGD18) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	30.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

X/LNP	.250	.500	.750
PHI			
.000	-.1750	-.1120	
90.000	-.1500	-.1150	-.1130
135.000	-.1770	-.1160	-.1130
180.000	-.1440	-.1170	-.1160
225.000	-.1150	-.1140	-.1170
270.000	-.1670	-.1150	-.1140

MACH (1) = 2.498 BETA (2) = -3.310

X/LNP	.250	.500	.750
PHI			
.000	-.1720	-.1170	
90.000	-.1500	-.1150	-.1150
135.000	-.1720	-.1150	-.1150
180.000	-.1410	-.1170	-.1150
225.000	-.1170	-.1150	-.1170
270.000	-.1640	-.1170	-.1150

MACH (1) = 2.498 BETA (3) = -.130

X/LNP	.250	.500	.750
PHI			
.000	-.1660	-.1130	
90.000	-.1460	-.1120	-.1130
135.000	-.1660	-.1150	-.1120
180.000	-.1380	-.1150	-.1120
225.000	-.1160	-.1150	-.1160
270.000	-.1600	-.1160	-.1110

MACH (1) = 2.498 BETA (4) = 3.060

X/LNP	.250	.500	.750
PHI			
.000	-.1730	-.1200	
90.000	-.1530	-.1210	-.1200
135.000	-.1750	-.1230	-.1190
180.000	-.1470	-.1240	-.1220
225.000	-.1240	-.1220	-.1240
270.000	-.1690	-.1230	-.1220

MACH (1) = 2.498 BETA (5) = 6.240

X/LNP	.250	.500	.750
PHI			
.000	-.1740	-.1240	
90.000	-.1540	-.1240	-.1230
135.000	-.1730	-.1250	-.1240
180.000	-.1460	-.1270	-.1230
225.000	-.1250	-.1250	-.1260

AMES 87-707 OA12 C2A UPPER MPS NOZZLE (R9GD18)

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

X/LNP	.250	.500	.750
PHI			
270.000	-.1680	-.1270	-.1220

MACH (2) = 3.501 BETA (1) = -6.700

X/LNP	.250	.500	.750
PHI			
.000	-.0930	-.0550	
90.000	-.0780	-.0550	-.0540
135.000	-.0960	-.0560	-.0540
180.000	-.0680	-.0550	-.0540
225.000	-.0530	-.0530	-.0530
270.000	-.0880	-.0530	-.0480

MACH (2) = 3.501 BETA (2) = -3.420

X/LNP	.250	.500	.750
PHI			
.000	-.0920	-.0580	
90.000	-.0780	-.0550	-.0550
135.000	-.0960	-.0580	-.0570
180.000	-.0690	-.0500	-.0560
225.000	-.0560	-.0560	-.0560
270.000	-.0880	-.0570	-.0500

MACH (2) = 3.501 BETA (3) = -.130

X/LNP	.250	.500	.750
PHI			
.000	-.0910	-.0570	
90.000	-.0770	-.0570	-.0570
135.000	-.0920	-.0560	-.0550
180.000	-.0680	-.0570	-.0550
225.000	-.0560	-.0570	-.0550
270.000	-.0880	-.0570	-.0510

MACH (2) = 3.501 BETA (4) = 3.170

X/LNP	.250	.500	.750
PHI			
.000	-.0910	-.0580	
90.000	-.0800	-.0580	-.0570
135.000	-.0950	-.0600	-.0570
180.000	-.0700	-.0580	-.0590
225.000	-.0580	-.0580	-.0580
270.000	-.0860	-.0580	-.0540

MACH (2) = 3.501 BETA (5) = 6.470

X/LNP	.250	.500	.750
PHI			
.000	-.0940	-.0640	
90.000	-.0840	-.0630	-.0640
135.000	-.0950	-.0650	-.0640
180.000	-.0720	-.0640	-.0640
225.000	-.0630	-.0630	-.0620



AMES 87-707 OA12 O2A UPPER MPS NOZZLE (RBOD18)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.470

X/LNP	.250	.500	.750
PHI			
270.000	-.0900	-.0650	-.0580

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C (RB&D19) (1[illegible] 73)

AMES 67-707 OA12 OCA UPPER MPS NOZZLE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (1) = -6.470

X/LNP	.250	.500	.750
PHI			
.000	-.1780	-.1150	
90.000	-.1530	-.1150	-.1160
135.000	-.1800	-.1170	-.1160
180.000	-.1400	-.1170	-.1170
225.000	-.1170	-.1160	-.1190
270.000	-.1680	-.1190	-.1150

MACH (1) = 2.498 BETA (2) = -3.300

X/LNP	.250	.500	.750
PHI			
.000	-.1760	-.1180	
90.000	-.1520	-.1190	-.1200
135.000	-.1780	-.1190	-.1180
180.000	-.1380	-.1190	-.1190
225.000	-.1200	-.1180	-.1200
270.000	-.1660	-.1210	-.1180

MACH (1) = 2.498 BETA (3) = -.140

X/LNP	.250	.500	.750
PHI			
.000	-.1720	-.1150	
90.000	-.1490	-.1150	-.1140
135.000	-.1720	-.1150	-.1150
180.000	-.1340	-.1150	-.1140
225.000	-.1150	-.1130	-.1150
270.000	-.1610	-.1150	-.1110

MACH (1) = 2.498 BETA (4) = 3.060

X/LNP	.250	.500	.750
PHI			
.000	-.1770	-.1200	
90.000	-.1550	-.1200	-.1190
135.000	-.1770	-.1200	-.1190
180.000	-.1400	-.1200	-.1180
225.000	-.1190	-.1180	-.1200
270.000	-.1680	-.1200	-.1150

MACH (1) = 2.498 BETA (5) = 6.250

X/LNP	.250	.500	.750
PHI			
.000	-.1750	-.1210	
90.000	-.1560	-.1220	-.1190
135.000	-.1780	-.1240	-.1210
180.000	-.1420	-.1240	-.1200
225.000	-.1220	-.1220	-.1240

AMES 87-707 OA12 OEA UPPER MPS NOZZLE (RB0D19)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.250

X/LNP	.250	.500	.750
PHI			
270.000	-.1690	-.1240	-.1210

MACH (2) = 3.502 BETA (1) = -6.700

X/LNP	.250	.500	.750
PHI			
.000	-.0610	-.0540	
90.000	-.0790	-.0530	-.0530
135.000	-.0950	-.0530	-.0540
180.000	-.0670	-.0530	-.0540
225.000	-.0530	-.0540	-.0540
270.000	-.0890	-.0520	-.0510

MACH (2) = 3.502 BETA (2) = -3.420

X/LNP	.250	.500	.750
PHI			
.000	-.0930	-.0550	
90.000	-.0780	-.0530	-.0530
135.000	-.0880	-.0550	-.0540
180.000	-.0630	-.0550	-.0530
225.000	-.0520	-.0530	-.0540
270.000	-.0880	-.0550	-.0490

MACH (2) = 3.502 BETA (3) = -.130

X/LNP	.250	.500	.750
PHI			
.000	-.0930	-.0540	
90.000	-.0910	-.0550	-.0520
135.000	-.0910	-.0590	-.0530
180.000	-.0670	-.0560	-.0540
225.000	-.0550	-.0560	-.0560
270.000	-.0900	-.0570	-.0520

MACH (2) = 3.502 BETA (4) = 3.170

X/LNP	.250	.500	.750
PHI			
.000	-.0920	-.0570	
90.000	-.0810	-.0560	-.0560
135.000	-.0910	-.0580	-.0570
180.000	-.0700	-.0590	-.0560
225.000	-.0570	-.0560	-.0570
270.000	-.0870	-.0580	-.0550

MACH (2) = 3.502 BETA (5) = 6.470

X/LNP	.250	.500	.750
PHI			
.000	-.0940	-.0610	
90.000	-.0830	-.0610	-.0590
135.000	-.0910	-.0620	-.0580
180.000	-.0710	-.0620	-.0580
225.000	-.0620	-.0610	-.0590

AMES 87-707 GA12 02A UPPER HPS NOZZLE (RBG019)

SECTION (1)HPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 6.470

X/LNP	.250	.500	.750
PHI			
270.000	-.0890	-.0610	-.0630

AMES 87-707 OA12 O2A UPPER MPS NOZZLE (RB0020) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

X/LNP	.250	.500	.750
PHI			
.000	-.1730	-.1030	
90.000	-.1460	-.1050	-.1040
135.000	-.1760	-.1060	-.1030
180.000	-.1290	-.1050	-.1040
225.000	-.1050	-.1030	-.1050
270.000	-.1640	-.1020	-.1060

MACH (1) = 2.498 BETA (2) = -3.300

X/LNP	.250	.500	.750
PHI			
.000	-.1730	-.1080	
90.000	-.1470	-.1080	-.1090
135.000	-.1740	-.1090	-.1060
180.000	-.1320	-.1110	-.1080
225.000	-.1100	-.1080	-.1110
270.000	-.1660	-.1100	-.1110

MACH (1) = 2.498 BETA (3) = -.130

X/LNP	.250	.500	.750
PHI			
.000	-.1680	-.1050	
90.000	-.1460	-.1050	-.1050
135.000	-.1710	-.1080	-.1060
180.000	-.1290	-.1050	-.1050
225.000	-.1050	-.1040	-.1080
270.000	-.1610	-.1070	-.1070

MACH (1) = 2.498 BETA (4) = 3.060

X/LNP	.250	.500	.750
PHI			
.000	-.1690	-.1070	
90.000	-.1470	-.1080	-.1070
135.000	-.1710	-.1090	-.1060
180.000	-.1310	-.1090	-.1070
225.000	-.1090	-.1070	-.1100
270.000	-.1600	-.1090	-.1120

MACH (1) = 2.498 BETA (5) = 6.240

X/LNP	.250	.500	.750
PHI			
.000	-.1690	-.1120	
90.000	-.1490	-.1130	-.1110
135.000	-.1730	-.1140	-.1130
180.000	-.1350	-.1130	-.1140
225.000	-.1130	-.1100	-.1140

AMES 87-707 OA12 O2A UPPER MPS NOZZLE (PBQD20)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

X/LNP	.250	.500	.750
PHI			
270.000	-.1630	-.1110	-.1150

MACH (2) = 3.501 BETA (1) = -6.700

X/LNP	.250	.500	.750
PHI			
.000	-.0910	-.0450	
90.000	-.0750	-.0470	-.0430
135.000	-.0940	-.0440	-.0430
180.000	-.0600	-.0450	-.0450
225.000	-.0430	-.0420	-.0450
270.000	-.0810	-.0430	-.0430

MACH (2) = 3.501 BETA (2) = -3.420

X/LNP	.250	.500	.750
PHI			
.000	-.0910	-.0460	
90.000	-.0750	-.0480	-.0460
135.000	-.0940	-.0460	-.0460
180.000	-.0600	-.0480	-.0480
225.000	-.0460	-.0460	-.0470
270.000	-.0840	-.0440	-.0490

MACH (2) = 3.501 BETA (3) = -.130

X/LNP	.250	.500	.750
PHI			
.000	-.0930	-.0460	
90.000	-.0750	-.0460	-.0450
135.000	-.0920	-.0480	-.0460
180.000	-.0610	-.0470	-.0460
225.000	-.0460	-.0470	-.0490
270.000	-.0850	-.0460	-.0480

MACH (2) = 3.501 BETA (4) = 3.170

X/LNP	.250	.500	.750
PHI			
.000	-.0920	-.0500	
90.000	-.0770	-.0490	-.0490
135.000	-.0890	-.0510	-.0520
180.000	-.0620	-.0510	-.0500
225.000	-.0490	-.0480	-.0510
270.000	-.0840	-.0480	-.0520

MACH (2) = 3.501 BETA (5) = 6.470

X/LNP	.250	.500	.750
PHI			
.000	-.0910	-.0540	
90.000	-.0770	-.0510	-.0540
135.000	-.0890	-.0540	-.0500
180.000	-.0610	-.0540	-.0530
225.000	-.0540	-.0530	-.0540



AMES 87-707 OA12 02A UPPER MPS NOZZLE (RB40020)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.470

X/LNP	.250	.500	.750
PHI			
270.000	-.0870	-.0530	-.0560

AMES 67-707 OA12 02A UPPER MPS NOZZLE (R80D21) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

X/LNP PHI	.250	.500	.750
.000	-.1760	-.1220	
90.000	-.1580	-.1230	-.1220
135.000	-.1830	-.1250	-.1220
180.000	-.1420	-.1240	-.1210
225.000	-.1230	-.1230	-.1250
270.000	-.1700	-.1250	-.1240

MACH (1) = 2.498 BETA (2) = -3.310

X/LNP PHI	.250	.500	.750
.000	-.1760	-.1240	
90.000	-.1580	-.1230	-.1240
135.000	-.1760	-.1240	-.1230
180.000	-.1400	-.1240	-.1240
225.000	-.1250	-.1230	-.1240
270.000	-.1690	-.1230	-.1240

MACH (1) = 2.498 BETA (3) = -.130

X/LNP PHI	.250	.500	.750
.000	-.1660	-.1200	
90.000	-.1580	-.1230	-.1210
135.000	-.1730	-.1230	-.1190
180.000	-.1380	-.1220	-.1210
225.000	-.1200	-.1190	-.1220
270.000	-.1640	-.1190	-.1230

MACH (1) = 2.498 BETA (4) = 3.060

X/LNP PHI	.250	.500	.750
.000	-.1770	-.1250	
90.000	-.1570	-.1260	-.1240
135.000	-.1790	-.1270	-.1250
180.000	-.1420	-.1270	-.1240
225.000	-.1260	-.1240	-.1260
270.000	-.1640	-.1260	-.1280

MACH (1) = 2.498 BETA (5) = 6.230

X/LNP PHI	.250	.500	.750
.000	-.1780	-.1310	
90.000	-.1600	-.1330	-.1300
135.000	-.1800	-.1320	-.1340
180.000	-.1440	-.1310	-.1310
225.000	-.1320	-.1320	-.1310

AMES 67-707 OA12 O2A UPPER MPS NOZZLE (RB0021)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.250

X/LNP	.250	.500	.750
PHI			
270.000	-.1700	-.1320	-.1310

MACH (2) = 3.503 BETA (1) = -6.700

X/LNP	.250	.500	.750
PHI			
.000	-.0930	-.0560	
90.000	-.0790	-.0540	-.0550
135.000	-.0940	-.0560	-.0540
180.000	-.0660	-.0560	-.0560
225.000	-.0550	-.0560	-.0390
270.000	-.0890	-.0560	-.0570

MACH (2) = 3.503 BETA (2) = -3.410

X/LNP	.250	.500	.750
PHI			
.000	-.0950	-.0590	
90.000	-.0830	-.0570	-.0590
135.000	-.0950	-.0610	-.0580
180.000	-.0680	-.0610	-.0580
225.000	-.0570	-.0580	-.0600
270.000	-.0900	-.0580	-.0590

MACH (2) = 3.503 BETA (3) = -.130

X/LNP	.250	.500	.750
PHI			
.000	-.0910	-.0550	
90.000	-.0780	-.0570	-.0540
135.000	-.0910	-.0570	-.0540
180.000	-.0680	-.0570	-.0570
225.000	-.0540	-.0540	-.0580
270.000	-.0850	-.0560	-.0570

MACH (2) = 3.503 BETA (4) = 3.170

X/LNP	.250	.500	.750
PHI			
.000	-.0900	-.0590	
90.000	-.0810	-.0590	-.0580
135.000	-.0900	-.0600	-.0590
180.000	-.0680	-.0610	-.0600
225.000	-.0580	-.0620	-.0600
270.000	-.0870	-.0590	-.0630

MACH (2) = 3.503 BETA (5) = 6.470

X/LNP	.250	.500	.750
PHI			
.000	-.0930	-.0630	
90.000	-.0830	-.0640	-.0640
135.000	-.0930	-.0650	-.0640
180.000	-.0750	-.0680	-.0660
225.000	-.0650	-.0650	-.0660

AMES 87-707 OA12 02A UPPER MPS NOZZLE (RB0021)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (5) = 6.470

X/LNP	.250	.500	.750
PHI			
270.000	-.0900	-.0650	-.0680

AMES 67-707 OA12 O2A UPPER MPS NOZZLE (RB0022) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -9.630

X/LNP	.250	.500	.750
PHI			
.000	-.1660	-.0950	
90.000	-.1420	-.0970	-.0950
135.000	-.1650	-.0960	-.0930
180.000	-.1230	-.0990	-.0950
225.000	-.0980	-.0960	-.0980
270.000	-.1550	-.0980	-.1020

MACH (1) = 2.498 BETA (2) = -5.610

X/LNP	.250	.500	.750
PHI			
.000	-.1690	-.1010	
90.000	-.1470	-.1020	-.1020
135.000	-.1690	-.1020	-.1000
180.000	-.1260	-.1010	-.1000
225.000	-.1010	-.0990	-.1030
270.000	-.1600	-.1020	-.1070

MACH (1) = 2.498 BETA (3) = .430

X/LNP	.250	.500	.750
PHI			
.000	-.1630	-.1080	
90.000	-.1450	-.1090	-.1070
135.000	-.1610	-.1090	-.1090
180.000	-.1250	-.1095	-.1090
225.000	-.1080	-.1050	-.1100
270.000	-.1540	-.1080	-.1130

MACH (1) = 2.498 BETA (4) = 6.450

X/LNP	.250	.500	.750
PHI			
.000	-.1670	-.1100	
90.000	-.1480	-.1130	-.1110
135.000	-.1670	-.1150	-.1120
180.000	-.1340	-.1140	-.1120
225.000	-.1130	-.1120	-.1140
270.000	-.1600	-.1150	-.1190

MACH (1) = 2.498 BETA (5) = 10.460

X/LNP	.250	.500	.750
PHI			
.000	-.1720	-.1160	
90.000	-.1590	-.1180	-.1170
135.000	-.1740	-.1180	-.1150
180.000	-.1380	-.1200	-.1180
225.000	-.1200	-.1180	-.1210

AMES 67-707 OA12 02A UPPER MPS NOZZLE (RBQD22)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 10.460

X/LNP	.250	.500	.750
PHI			
270.000	-.1650	-.1190	-.1230

MACH (2) = 3.502 BETA (1) = -9.610

X/LNP	.250	.500	.750
PHI			
.000	-.0950	-.0490	
90.000	-.0760	-.0480	-.0490
135.000	-.0960	-.0490	-.0490
180.000	-.0620	-.0490	-.0470
225.000	-.0500	-.0500	-.0480
270.000	-.0880	-.0490	-.0510

MACH (2) = 3.502 BETA (2) = -5.600

X/LNP	.250	.500	.750
PHI			
.000	-.0920	-.0550	
90.000	-.0800	-.0520	-.0550
135.000	-.0930	-.0540	-.0530
180.000	-.0640	-.0530	-.0540
225.000	-.0540	-.0550	-.0550
270.000	-.0870	-.0540	-.0550

MACH (2) = 3.502 BETA (3) = .420

X/LNP	.250	.500	.750
PHI			
.000	-.0940	-.0640	
90.000	-.0840	-.0620	-.0610
135.000	-.0940	-.0640	-.0640
180.000	-.0700	-.0610	-.0630
225.000	-.0630	-.0620	-.0640
270.000	-.0880	-.0630	-.0610

MACH (2) = 3.502 BETA (4) = 6.440

X/LNP	.250	.500	.750
PHI			
.000	-.0960	-.0640	
90.000	-.0870	-.0670	-.0640
135.000	-.0960	-.0660	-.0640
180.000	-.0740	-.0650	-.0640
225.000	-.0630	-.0660	-.0660
270.000	-.0910	-.0640	-.0660

MACH (2) = 3.502 BETA (5) = 10.440

X/LNP	.250	.500	.750
PHI			
.000	-.0950	-.0650	
90.000	-.0850	-.0650	-.0650
135.000	-.0960	-.0670	-.0650
180.000	-.0750	-.0660	-.0650
225.000	-.0670	-.0650	-.0670

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQD22)

AMES 87-707 OA12 02A UPPER MPS NOZZLE

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 10.440

X/LNP	.250	.500	.750
PHI			
270.000	-.0930	-.0670	-.0670

AMES 87-707 OA12 02A UPPER MPS NOZZLE (RB3023) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8450 INCHES YMRP = .0000 INCHES
BREF = 39.8450 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 15.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (1) = -5.560

X/LNP	.250	.500	.750
PHI			
.000	-.1670	-.0960	
90.000	-.1430	-.0960	-.0960
135.000	-.1670	-.0980	-.0950
180.000	-.1250	-.1000	-.0980
225.000	-.0960	-.0960	-.1000
270.000	-.1550	-.0970	-.1040

MACH (1) = 2.498 BETA (2) = .420

X/LNP	.250	.500	.750
PHI			
.000	-.1630	-.0860	
90.000	-.1360	-.0870	-.0860
135.000	-.1620	-.0900	-.0860
180.000	-.1170	-.0910	-.0870
225.000	-.0890	-.0880	-.0920
270.000	-.1510	-.0910	-.0940

MACH (1) = 2.498 BETA (3) = 6.340

X/LNP	.250	.500	.750
PHI			
.000	-.1670	-.1010	
90.000	-.1460	-.1020	-.1000
135.000	-.1680	-.1030	-.1000
180.000	-.1280	-.1010	-.1030
225.000	-.1010	-.0990	-.1040
270.000	-.1560	-.1010	-.1080

MACH (2) = 3.502 BETA (1) = -5.540

X/LNP	.250	.500	.750
PHI			
.000	-.0940	-.0530	
90.000	-.0790	-.0540	-.0510
135.000	-.0960	-.0550	-.0540
180.000	-.0670	-.0550	-.0550
225.000	-.0520	-.0530	-.0530
270.000	-.0860	-.0530	-.0540

MACH (2) = 3.502 BETA (2) = .420

X/LNP	.250	.500	.750
PHI			
.000	-.0930	-.0550	
90.000	-.0810	-.0590	-.0540
135.000	-.0960	-.0550	-.0540
180.000	-.0710	-.0570	-.0550
225.000	-.0570	-.0550	-.0550

AMES 67-707 OA12 02A UPPER MPS NOZZLE (RB0023)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = .420

X/LNP	.250	.500	.750
PHI			
270.000	-.0850	-.0550	-.0580

MACH (2) = 3.502 BETA (3) = 6.320

X/LNP	.250	.500	.750
PHI			
.000	-.0960	-.0620	
90.000	-.0820	-.0630	-.0650
135.000	-.0960	-.0640	-.0610
180.000	-.0720	-.0630	-.0630
225.000	-.0640	-.0620	-.0630
270.000	-.0920	-.0630	-.0630

AMES 87-707 OA12 O2A OMS NOZZLE (RBQE01) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

BETA =	.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = -.090

X/LNM	.200	.400
PHI		
135.000	.2910	
180.000	.2560	.3470
225.000	.0080	

MACH (1) = 2.498 ALPHA (2) = 4.960

X/LNM	.200	.400
PHI		
135.000	.1850	
180.000	.1690	.1980
225.000	-.0480	

MACH (1) = 2.498 ALPHA (3) = 9.970

X/LNM	.200	.400
PHI		
135.000	.0460	
180.000	.1100	.1860
225.000	-.0710	

MACH (1) = 2.498 ALPHA (4) = 14.890

X/LNM	.200	.400
PHI		
135.000	.0200	
180.000	-.0260	-.0950
225.000	-.1080	

MACH (1) = 2.498 ALPHA (5) = 19.870

X/LNM	.200	.400
PHI		
135.000	-.1050	
180.000	-.0980	-.1390
225.000	-.1470	

MACH (2) = 3.502 ALPHA (1) = -.020

X/LNM	.200	.400
PHI		
135.000	.1030	
180.000	.1310	.1950
225.000	.0130	

MACH (2) = 3.502 ALPHA (2) = 5.170

X/LNM	.200	.400
PHI		
135.000	.0740	
180.000	.0950	.2010
225.000	.0000	

AMES 87-707 OA12 O2A OMS NOZZLE (RBQED1)

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (3) = 10.130

X/LNM	.200	.400
PHI		
135.000	-.0080	
180.000	.0200	.0480
225.000	-.0190	

MACH (2) = 3.502 ALPHA (4) = 15.050

X/LNM	.200	.400
PHI		
135.000	-.0490	
180.000	-.0200	-.0590
225.000	-.0550	

MACH (2) = 3.502 ALPHA (5) = 20.020

X/LNM	.200	.400
PHI		
135.000	-.0710	
180.000	-.0180	-.0530
225.000	-.0770	

AMES 67-707 OA12 O2A OMS NOZZLE (RBGED2) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -3.300

X/LNM	.200	.400
PHI		
135.000	.3050	
180.000	.2820	.4040
225.000	.0440	

MACH (1) = 2.498 BETA (2) = 3.060

X/LNM	.200	.400
PHI		
135.000	.1400	
180.000	.2930	.1290
225.000	-.0210	

MACH (2) = 3.502 BETA (1) = -3.410

X/LNM	.200	.400
PHI		
135.000	.1300	
180.000	.0920	.1570
225.000	.7320	

MACH (2) = 3.502 BETA (2) = 3.190

X/LNM	.200	.400
PHI		
135.000	.1030	
180.000	.1580	.1870
225.000	.0670	

AMES 87-76" OA12 C2A OMS NOZZLE (RBQE03) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LNM	.200	.400
PHI		
135.000	-.0120	
180.000	-.0390	-.1120
225.000	-.1020	

MACH (1) = 2.498 BETA (2) = -3.340

X/LNM	.200	.400
PHI		
135.000	-.0360	
180.000	.1670	.0620
225.000	-.0810	

MACH (1) = 2.498 BETA (3) = 3.020

X/LNM	.200	.400
PHI		
135.000	.1300	
180.000	.1510	.1670
225.000	-.0710	

MACH (1) = 2.498 BETA (4) = 6.200

X/LNM	.200	.400
PHI		
135.000	.1630	
180.000	.1280	.1510
225.000	-.0620	

MACH (2) = 3.502 BETA (1) = -6.740

X/LNM	.200	.400
PHI		
135.000	-.0460	
180.000	-.0280	-.0390
225.000	-.0860	

MACH (2) = 3.502 BETA (2) = -3.460

X/LNM	.200	.400
PHI		
135.000	-.0260	
180.000	-.0460	-.0690
225.000	-.0550	

MACH (2) = 3.502 BETA (3) = 3.140

X/LNM	.200	.400
PHI		
135.000	.0450	
180.000	.0630	.1400
225.000	-.0160	

DATE 10 SEP 75 TABULATED PRESSURE DATA - OA12C (RBQE03)

AMES 67-707 OA12 O2A OMS NOZZLE

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 6.440

X/LNM	.200	.400
PHI		
135.000	.1000	
180.000	.0500	-.0370
225.000	-.0330	

AMES 67-707 OA12 O2A OMS NOZZLE (RBQE04) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

X/LNM	.200	.400
PHI		
135.000	-.1350	
180.000	-.1470	-.1670
225.000	-.1660	

MACH (1) = 2.498 BETA (2) = -3.310

X/LNM	.200	.400
PHI		
135.000	-.1560	
180.000	-.1430	-.1660
225.000	-.1660	

MACH (1) = 2.498 BETA (3) = 3.050

X/LNM	.200	.400
PHI		
135.000	-.1490	
180.000	-.0390	-.1020
225.000	-.0640	

MACH (1) = 2.498 BETA (4) = 6.240

X/LNM	.200	.400
PHI		
135.000	.0070	
180.000	.0210	-.0320
225.000	-.0870	

MACH (2) = 3.502 BETA (1) = -6.710

X/LNM	.200	.400
PHI		
135.000	-.0140	
180.000	-.0760	-.0930
225.000	-.0960	

MACH (2) = 3.502 BETA (2) = -3.430

X/LNM	.200	.400
PHI		
135.000	-.0730	
180.000	-.0800	-.0920
225.000	-.0910	

MACH (2) = 3.502 BETA (3) = 3.160

X/LNM	.200	.400
PHI		
135.000	-.0790	
180.000	-.0320	-.0680
225.000	-.0400	

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQEC4)

AMES 87-707 OA12 O2A OMS NOZZLE

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 6.470

X/LNM	.200	.400
PHI		
135.000	-.0660	
180.000	-.0140	-.0150
225.000	-.0520	

AMES 87-707 OA12 O2A OMS NOZZLE (RBQED5) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	-20.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LNM	.200	.400
PHI		
135.000	.2420	
180.000	.1560	.3040
225.000	.0610	

MACH (1) = 2.498 BETA (2) = -3.300

X/LNM	.200	.400
PHI		
135.000	.3030	
180.000	.2860	.4510
225.000	.0550	

MACH (1) = 2.498 BETA (3) = -.160

X/LNM	.200	.400
PHI		
135.000	.2890	
180.000	.2570	.3500
225.000	.0170	

MACH (1) = 2.498 BETA (4) = 3.060

X/LNM	.200	.400
PHI		
135.000	.1460	
180.000	.2920	.1470
225.000	-.0180	

MACH (1) = 2.498 BETA (5) = 6.290

X/LNM	.200	.400
PHI		
135.000	.0600	
180.000	.2240	.0450
225.000	-.0790	

MACH (2) = 3.501 BETA (1) = -6.670

X/LNM	.200	.400
PHI		
135.000	.1360	
180.000	.0880	.2700
225.000	.0350	

MACH (2) = 3.501 BETA (2) = -3.420

X/LNM	.200	.400
PHI		
135.000	.1350	
180.000	.0910	.1590
225.000	.0380	

AMES 67-707 OA12 02A OMS NOZZLE (RB9E05)

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.180

PHI	X/LNM .200	.400
135.000	.1040	
180.000	.1330	.2040
225.000	.0960	

MACH (2) = 3.501 BETA (4) = 3.180

PHI	X/LNM .200	.400
135.000	.1010	
180.000	.1310	.1890
225.000	.0590	

MACH (2) = 3.501 BETA (5) = 6.540

PHI	X/LNM .200	.400
135.000	.0600	
180.000	.0720	.1360
225.000	-.0370	

AMES 97-707 OA12 02A OMS NOZZLE (RBQEDF) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LNM	.200	.400
PHI		
135.000	.0030	
180.000	-.0600	-.1240
225.000	-.1080	

MACH (1) = 2.498 BETA (2) = -3.340

X/LNM	.200	.400
PHI		
135.000	-.0390	
180.000	.1550	.0530
225.000	-.0760	

MACH (1) = 2.498 BETA (3) = -.160

X/LNM	.200	.400
PHI		
135.000	.0510	
180.000	.1030	.1970
225.000	-.0610	

MACH (1) = 2.498 BETA (4) = 3.020

X/LNM	.200	.400
PHI		
135.000	.1340	
180.000	.1460	.1860
225.000	-.0630	

MACH (1) = 2.498 BETA (5) = 6.210

X/LNM	.200	.400
PHI		
135.000	.1710	
180.000	.1260	.1660
225.000	-.0620	

MACH (2) = 3.501 BETA (1) = -6.750

X/LNM	.200	.400
PHI		
135.000	-.0410	
180.000	-.0240	-.0360
225.000	-.0850	

MACH (2) = 3.501 BETA (2) = -3.450

X/LNM	.200	.400
PHI		
135.000	-.0270	
180.000	-.0500	-.0700
225.000	-.0590	

AMES 87-707 OA12 O2A OMS NOZZLE (RBQED8)

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.160

X/LNM	.200	.400
PHI		
135.000	-.0040	
180.000	.0220	.0490
225.000	-.0190	

MACH (2) = 3.501 BETA (4) = 3.140

X/LNM	.200	.400
PHI		
135.000	.0540	
180.000	.0690	.1320
225.000	-.0160	

MACH (2) = 3.501 BETA (5) = 6.440

X/LNM	.200	.400
PHI		
135.000	.0990	
180.000	.0460	-.0430
225.000	-.0330	

AMES 67-707 OA12 OEA OMS NOZZLE (RBQED7) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

X/LNM	.200	.400
PHI		
135.000	-.1300	
180.000	-.1450	-.1630
225.000	-.1660	

MACH (1) = 2.498 BETA (2) = -3.320

X/LNM	.200	.400
PHI		
135.000	-.1520	
180.000	-.1390	-.1600
225.000	-.1640	

MACH (1) = 2.498 BETA (3) = -.150

X/LNM	.200	.400
PHI		
135.000	-.1050	
180.000	-.1020	-.1410
225.000	-.1480	

MACH (1) = 2.498 BETA (4) = 3.040

X/LNM	.200	.400
PHI		
135.000	-.1460	
180.000	-.0420	-.1040
225.000	-.0650	

MACH (1) = 2.498 BETA (5) = 6.240

X/LNM	.200	.400
PHI		
135.000	.0360	
180.000	.0200	-.0200
225.000	-.0890	

MACH (2) = 3.501 BETA (1) = -6.710

X/LNM	.200	.400
PHI		
135.000	-.0070	
180.000	-.0750	-.0880
225.000	-.0940	

MACH (2) = 3.501 BETA (2) = -3.440

X/LNM	.200	.400
PHI		
135.000	-.0760	
180.000	-.0810	-.0950
225.000	-.0940	

ANES 67-707 OA12 O2A OMS NOZZLE (RBWE07)

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.150

X/LNM	.200	.400
PHI		
135.000	-.0710	
180.000	-.0180	-.0580
225.000	-.0800	

MACH (2) = 3.501 BETA (4) = 3.160

X/LNM	.200	.400
PHI		
135.000	-.0790	
180.000	-.0320	-.0680
225.000	-.0440	

MACH (2) = 3.501 BETA (5) = 6.470

X/LNM	.200	.400
PHI		
135.000	-.0680	
180.000	-.0150	-.0170
225.000	-.0500	

AMES 67-707 OA12 O2A OMS NOZZLE (RBQED8) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	.000
ELEVON =	10.000	RUDFLR =	40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LNM	.200	.400
PHI		
135.000	.2480	
180.000	.1460	.2770
225.000	.0480	

MACH (1) = 2.498 BETA (2) = -3.300

X/LNM	.200	.400
PHI		
135.000	.2940	
180.000	.2670	.3460
225.000	.0260	

MACH (1) = 2.498 BETA (3) = -.160

X/LNM	.200	.400
PHI		
135.000	.2900	
180.000	.2430	.3630
225.000	.0200	

MACH (1) = 2.498 BETA (4) = 3.060

X/LNM	.200	.400
PHI		
135.000	.1600	
180.000	.2860	.1700
225.000	-.0120	

MACH (1) = 2.498 BETA (5) = 6.29[illegible]

X/LNM	.200	.400
PHI		
135.000	.0820	
180.000	.2110	.0310
225.000	-.0730	

MACH (2) = 3.901 BETA (1) = -6.670

X/LNM	.200	.400
PHI		
135.000	.1340	
180.000	.0820	.2620
225.000	.0290	

MACH (2) = 3.901 BETA (2) = -3.420

X/LNM	.200	.400
PHI		
135.000	.1220	
180.000	.0810	.1440
225.000	.0270	

AMES 87-707 OA12 C2A OM3 NOZZLE (RB0E08)

SECTION (1)OM3 NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.170

X/LNM	.200	.400
PHI		
135.000	.1040	
180.000	.1280	.1630
225.000	.0100	

MACH (2) = 3.501 BETA (4) = 3.190

X/LNM	.200	.400
PHI		
135.000	.0940	
180.000	.1360	.2160
225.000	.0530	

MACH (2) = 3.501 BETA (5) = 6.530

X/LNM	.200	.400
PHI		
135.000	.0570	
180.000	.0620	.1490
225.000	-.0390	

AMES 87-707 OA12 OEA OMS NOZZLE (RB0E09) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LNM	.200	.400
PHI		
135.000	-.0030	
180.000	-.0440	-.1120
225.000	-.0870	

MACH (1) = 2.498 BETA (2) = -3.340

X/LNM	.200	.400
PHI		
135.000	-.0220	
180.000	.1760	.0950
225.000	-.0720	

MACH (1) = 2.498 BETA (3) = -.160

X/LNM	.200	.400
PHI		
135.000	.0630	
180.000	.0930	.2200
225.000	-.0410	

MACH (1) = 2.498 BETA (4) = 3.020

X/LNM	.200	.400
PHI		
135.000	.1320	
180.000	.1230	.2370
225.000	-.0590	

MACH (1) = 2.498 BETA (5) = 6.200

X/LNM	.200	.400
PHI		
135.000	.1720	
180.000	.1190	.1710
225.000	-.0650	

MACH (2) = 3.501 BETA (1) = -6.750

X/LNM	.200	.400
PHI		
135.000	-.0400	
180.000	-.0180	-.0350
225.000	-.0880	

MACH (2) = 3.501 BETA (2) = -3.430

X/LNM	.200	.400
PHI		
135.000	-.0280	
180.000	-.0530	-.0710
225.000	-.0620	

AMES 87-707 OA12 C2A OM3 NOZZLE (RB0E09)

SECTION (1)OM3 NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.160

X/LNM	.200	.400
PHI		
135.000	-.0080	
180.000	.0230	.0560
225.000	-.0140	

MACH (2) = 3.501 BETA (4) = 3.130

X/LNM	.200	.400
PHI		
135.000	.0450	
180.000	.0610	.1360
225.000	-.0170	

MACH (2) = 3.501 BETA (5) = 6.440

X/LNM	.200	.400
PHI		
135.000	.1020	
180.000	.0430	-.0470
225.000	-.0430	

AMES 87-707 OA12 O2A OMS NOZZLE (RBOE10) (16 MAY 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

X/LNM	.200	.400
PHI		
135.000	-.1230	
180.000	-.1220	-.1620
225.000	-.1630	

MACH (1) = 2.498 BETA (2) = -3.320

X/LNM	.200	.400
PHI		
135.000	-.1470	
180.000	-.1370	-.1530
225.000	-.1520	

MACH (1) = 2.498 BETA (3) = -.160

X/LNM	.200	.400
PHI		
135.000	-.1000	
180.000	-.0950	-.1390
225.000	-.1480	

MACH (1) = 2.498 BETA (4) = 3.040

X/LNM	.200	.400
PHI		
135.000	-.1500	
180.000	-.0540	-.1160
225.000	-.0750	

MACH (1) = 2.498 BETA (5) = 6.240

X/LNM	.200	.400
PHI		
135.000	.0140	
180.000	.0190	-.0160
225.000	-.0630	

MACH (2) = 3.501 BETA (1) = -6.710

X/LNM	.200	.400
PHI		
135.000	-.0110	
180.000	-.0800	-.0930
225.000	-.0980	

MACH (2) = 3.501 BETA (2) = -3.440

X/LNM	.200	.400
PHI		
135.000	-.0750	
180.000	-.0820	-.0940
225.000	-.0930	

AMES 87-707 CA12 O2A OMS NOZZLE (REDE10)

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.150

X/LNM	.200	.400
PHI		
135.000	-.0760	
180.000	-.0230	-.0[illegible]90
225.000	-.0820	

MACH (2) = 3.501 BETA (4) = 3.160

X/LNM	.200	.400
PHI		
135.000	-.0840	
180.000	-.0390	-.0770
225.000	-.0500	

MACH (2) = 3.501 BETA (5) = 6.480

X/LNM	.200	.400
PHI		
135.000	-.0690	
180.000	-.0150	-.0290
225.000	-.0610	

AMES 87-707 OA12 O2A OMS NOZZLE (RBOE11) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LNM	.200	.400
PHI		
135.000	.2330	
180.000	.1550	.3110
225.000	.0640	

MACH (1) = 2.498 BETA (2) = -3.300

X/LNM	.200	.400
PHI		
135.000	.3180	
180.000	.2920	.4730
225.000	.0700	

MACH (1) = 2.498 BETA (3) = -.220

X/LNM	.200	.400
PHI		
135.000	.2890	
180.000	.2820	.3040
225.000	-.0070	

MACH (1) = 2.498 BETA (4) = 3.070

X/LNM	.200	.400
PHI		
135.000	.1050	
180.000	.2890	.0630
225.000	-.0440	

MACH (1) = 2.498 BETA (5) = 6.300

X/LNM	.200	.400
PHI		
135.000	.0210	
180.000	.2130	.0110
225.000	-.0910	

MACH (2) = 3.502 BETA (1) = -6.670

X/LNM	.200	.400
PHI		
135.000	.1430	
180.000	.0910	.2740
225.000	.0450	

MACH (2) = 3.502 BETA (2) = -3.410

X/LNM	.200	.400
PHI		
135.000	.1250	
180.000	.0890	.1630
225.000	.0440	

AMES 87-707 CA12 C2A OMS NOZZLE (RPQ611)

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.160

X/LNM	.200	.400
PHI		
135.000	.1100	
180.000	.1390	.2270
225.000	.0[illegible]0	

MACH (2) = 3.502 BETA (4) = 3.180

X/LNM	.200	.400
PHI		
135.000	.1090	
180.000	.1730	.1560
225.000	.0520	

MACH (2) = 3.502 BETA (5) = 6.530

X/LNM	.200	.400
PHI		
135.000	.0650	
180.000	.0890	.1010
225.000	-.0320	

AMES 87-707 OA12 O2A OMS NOZZLE (RBQE12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.530

X/LNM	.200	.400
PHI		
135.000	-.0060	
180.000	-.0640	-.1190
225.000	-.1070	

MACH (1) = 2.498 BETA (2) = -3.340

X/LNM	.200	.400
PHI		
135.000	-.0670	
180.000	.1250	-.0340
225.000	-.0970	

MACH (1) = 2.498 BETA (3) = -.170

X/LNM	.200	.400
PHI		
135.000	.0100	
180.000	.1340	.0490
225.000	-.0990	

MACH (1) = 2.498 BETA (4) = 3.020

X/LNM	.200	.400
PHI		
135.000	.1010	
180.000	.1650	.0700
225.000	-.0960	

MACH (1) = 2.498 BETA (5) = 6.200

X/LNM	.200	.400
PHI		
135.000	.1580	
180.000	.1390	.1280
225.000	-.0610	

MACH (2) = 3.502 BETA (1) = -6.750

X/LNM	.200	.400
PHI		
135.000	-.0380	
180.000	-.0190	-.0330
225.000	-.0870	

MACH (2) = 3.502 BETA (2) = -3.490

X/LNM	.200	.400
PHI		
135.000	-.0240	
180.000	-.0490	-.0650
225.000	-.0580	

AMES 87-707 OA12 O2A OM3 NOZZLE (PAGE12)

SECTION (1)OM3 NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.160

X/LNM	.200	.400
PHI		
135.000	-.0150	
180.000	.0290	.0840
225.000	-.0020	

MACH (2) = 3.502 BETA (4) = 3.140

X/LNM	.200	.400
PHI		
135.000	.0550	
180.000	.0680	.1450
225.000	-.0100	

MACH (2) = 3.502 BETA (5) = 6.430

X/LNM	.200	.400
PHI		
135.000	.1030	
180.000	.0440	-.0440
225.000	-.0390	

AMES 87-707 OA12 O2A OMS NOZZLE (RBOE13) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

PHI	X/LNM .200	.400
135.000	-.1200	
180.000	-.1350	-.1620
225.000	-.1610	

MACH (1) = 2.498 BETA (2) = -3.330

PHI	X/LNM .200	.400
135.000	-.1490	
180.000	-.1240	-.1650
225.000	-.1650	

MACH (1) = 2.498 BETA (3) = -.160

PHI	X/LNM .200	.400
135.000	-.0990	
180.000	-.0870	-.1320
225.000	-.1460	

MACH (1) = 2.498 BETA (4) = 3.040

PHI	X/LNM .200	.400
135.000	-.1460	
180.000	-.0430	-.1080
225.000	-.0590	

MACH (1) = 2.498 BETA (5) = 6.240

PHI	X/LNM .200	.400
135.000	.0210	
180.000	.0210	-.0410
225.000	-.0880	

MACH (2) = 3.502 BETA (1) = -6.710

PHI	X/LNM .200	.400
135.000	-.0080	
180.000	-.0750	-.0660
225.000	-.0950	

MACH (2) = 3.502 BETA (2) = -3.460

PHI	X/LNM .200	.400
135.000	-.0690	
180.000	-.0740	-.0930
225.000	-.0930	

AMES 87-707 OA12 OBA OMS NOZZLE (RBGE13)

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.160

X/LNM	.200	.400
PHI		
135.000	-.0630	
180.000	-.0140	-.0420
225.000	-.0740	

MACH (2) = 3.502 BETA (4) = 3.160

X/LNM	.200	.400
PHI		
135.000	-.0780	
180.000	-.0280	-.0630
225.000	-.0350	

MACH (2) = 3.502 BETA (5) = 6.470

X/LNM	.200	.400
PHI		
135.000	-.0670	
180.000	-.0180	-.0170
225.000	-.0540	

AMES 87-707 OA12 O2A OMS NOZZLE (RBGE14) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LNM	.200	.400
PHI		
135.000	.4030	
180.000	.1580	.3070
225.000	.0540	

MACH (1) = 2.498 BETA (2) = -3.300

X/LNM	.200	.400
PHI		
135.000	.3680	
180.000	.2740	.3450
225.000	.0220	

MACH (1) = 2.498 BETA (3) = -.170

X/LNM	.200	.400
PHI		
135.000	.3730	
180.000	.2590	.3340
225.000	-.0010	

MACH (1) = 2.498 BETA (4) = 3.060

X/LNM	.200	.400
PHI		
135.000	.1730	
180.000	.2660	.1230
225.000	-.0410	

MACH (1) = 2.498 BETA (5) = 6.290

X/LNM	.200	.400
PHI		
135.000	.0460	
180.000	.2100	.0210
225.000	-.0920	

MACH (2) = 3.503 BETA (1) = -6.670

X/LNM	.200	.400
PHI		
135.000	.1680	
180.000	.0870	.2950
225.000	.0410	

MACH (2) = 3.503 BETA (2) = -3.420

X/LNM	.200	.400
PHI		
135.000	.1340	
180.000	.0960	.1700
225.000	.0420	

AMES 87-707 OA12 C2A OMS NOZZLE (RBQE14)

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.170

X/LNM	.200	.400
PHI		
135.000	.1140	
180.000	.1310	.1930
225.000	.0110	

MACH (2) = 3.503 BETA (4) = 3.180

X/LNM	.200	.400
PHI		
135.000	.1060	
180.000	.1590	.1750
225.000	.0530	

MACH (2) = 3.503 BETA (5) = 6.520

X/LNM	.200	.400
PHI		
135.000	.0560	
180.000	.0890	.0890
225.000	-.0350	

AMES 67-707 OA12 O2A OMS NOZZLE (RB8E15) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.496 BETA (1) = -6.520

X/LNM	.200	.400
PHI		
135.000	-.0600	
180.000	-.0480	-.1110
225.000	-.1010	

MACH (1) = 2.498 BETA (2) = -3.340

X/LNM	.200	.400
PHI		
135.000	.0020	
180.000	.1680	.0160
225.000	-.0910	

MACH (1) = 2.498 BETA (3) = -.170

X/LNM	.200	.470
PHI		
135.000	.0760	
180.000	.1210	.1620
225.000	-.0760	

MACH (1) = 2.498 BETA (4) = 3.020

X/LNM	.200	.400
PHI		
135.000	.1280	
180.000	.1550	.1330
225.000	-.0850	

MACH (1) = 2.498 BETA (5) = 6.200

X/LNM	.200	.400
PHI		
135.000	.1140	
180.000	.1360	.0830
225.000	-.0650	

MACH (2) = 3.503 BETA (1) = -6.750

X/LNM	.200	.400
PHI		
135.000	-.0370	
180.000	-.0180	-.0360
225.000	-.0870	

MACH (2) = 3.503 BETA (2) = -3.480

X/LNM	.200	.400
PHI		
135.000	-.0260	
180.000	-.0470	-.0660
225.000	-.0570	

DATE 10 SEP 75 TABULATED PRESSURE DATA - OA12C (RBGE15)

AMES 87-707 OA12 O2A CMS NOZZLE

SECTION (1)CMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.160

X/LNM	.200	.400
PHI		
135.000	-.0010	
180.000	.0220	.0490
225.000	-.0170	

MACH (2) = 3.503 BETA (4) = 3.130

X/LNM	.200	.400
PHI		
135.000	.0550	
180.000	.0650	.1280
225.000	-.0140	

MACH (2) = 3.503 BETA (5) = 6.430

X/LNM	.200	.400
PHI		
135.000	.0970	
180.000	.0390	-.0500
225.000	-.0430	

AMES 67-70T OA12 OA1 OMS NOZZLE (RBOE16) (16 MAY 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

X/LNM	.200	.400
PHI		
135.000	-.0630	
180.000	-.1260	-.1650
225.000	-.1860	

MACH (1) = 2.498 BETA (2) = -3.320

X/LNM	.200	.400
PHI		
135.000	-.1380	
180.000	-.1250	-.1500
225.000	-.1650	

MACH (1) = 2.498 BETA (3) = -.160

X/LNM	.200	.400
PHI		
135.000	-.0820	
180.000	-.0690	-.1210
225.000	-.1410	

MACH (1) = 2.498 BETA (4) = 3.040

X/LNM	.200	.400
PHI		
135.000	-.1400	
180.000	-.0360	-.1000
225.000	-.0610	

MACH (1) = 2.498 BETA (5) = 6.240

X/LNM	.200	.400
PHI		
135.000	.0410	
180.000	.0270	-.0080
225.000	-.0870	

MACH (2) = 3.503 BETA (1) = -6.720

X/LNM	.200	.400
PHI		
135.000	-.0040	
180.000	-.0690	-.0880
225.000	-.0930	

MACH (2) = 3.503 BETA (2) = -3.440

X/LNM	.200	.400
PHI		
135.000	-.0690	
180.000	-.0810	-.0930
225.000	-.0930	

AMES 67-707 OA12 O2A OMS NOZZLE (RBQE16)

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.160

X/LNM	.200	.400
PHI		
135.000	-.0680	
180.000	-.0200	-.0610
225.000	-.0780	

MACH (2) = 3.503 BETA (4) = 3.150

X/LNM	.200	.400
PHI		
135.000	-.0790	
180.000	-.0340	-.0670
225.000	-.0400	

MACH (2) = 3.503 BETA (5) = 6.470

X/LNM	.200	.400
PHI		
135.000	-.0710	
180.000	-.0190	-.0100
225.000	-.0500	

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 O2A ONS NOZZLE (RBGE17) (16 MAY 73)

REFERENCE DATA

SREF =	2.4217 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.849 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

BETA =	.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)ONS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = 15.200

X/LNM	.200	.400
PHI		
135.000	-.0460	
180.000	-.0350	-.1020
225.000	-.1230	

MACH (1) = 2.498 ALPHA (2) = 20.250

X/LNM	.200	.400
PHI		
135.000	-.0950	
180.000	-.0850	-.1190
225.000	-.1490	

MACH (1) = 2.498 ALPHA (3) = 25.180

X/LNM	.200	.400
PHI		
135.000	-.1430	
180.000	-.1480	-.1630
225.000	-.1620	

MACH (1) = 2.498 ALPHA (4) = 30.150

X/LNM	.200	.400
PHI		
135.000	-.1690	
180.000	-.1710	-.1700
225.000	-.1700	

MACH (1) = 2.498 ALPHA (5) = 35.290

X/LNM	.200	.400
PHI		
135.000	-.1720	
180.000	-.1790	-.1720
225.000	-.1590	

MACH (1) = 2.498 ALPHA (6) = 38.670

X/LNM	.200	.400
PHI		
135.000	-.1740	
180.000	-.1770	-.1770
225.000	-.1760	

MACH (2) = 3.501 ALPHA (1) = 15.160

X/LNM	.200	.400
PHI		
135.000	-.0490	
180.000	-.0240	-.0620
225.000	-.0630	

DATE 15 SEP 75 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 OEA OMS NOZZLE (RBQE17)

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (2) = 20.230

X/LNM	.200	.400
PHI		
135.000	-.0720	
180.000	-.0180	-.0590
225.000	-.0820	

MACH (2) = 3.501 ALPHA (3) = 25.240

X/LNM	.200	.400
PHI		
135.000	-.0760	
180.000	-.0750	-.0900
225.000	-.0890	

MACH (2) = 3.501 ALPHA (4) = 30.110

X/LNM	.200	.400
PHI		
135.000	-.0890	
180.000	-.0960	-.0950
225.000	-.0970	

MACH (2) = 3.50. ALPHA (5) = 35.250

X/LNM	.200	.400
PHI		
135.000	-.0890	
180.000	-.0940	-.0950
225.000	-.0970	

MACH (2) = 3.501 ALPHA (6) = 38.630

X/LNM	.200	.400
PHI		
135.000	-.0890	
180.000	-.0910	-.0930
225.000	-.0930	

AMES 67-707 OA12 OEA OMS NOZZLE (RBOE18) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	30.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

X/LNM	.200	.400
PHI		
135.000	-.1230	
180.000	-.0950	-.1560
225.000	-.1740	

MACH (1) = 2.498 BETA (2) = -3.310

X/LNM	.200	.400
PHI		
135.000	-.1230	
180.000	-.1450	-.1680
225.000	-.1690	

MACH (1) = 2.498 BETA (3) = -.130

X/LNM	.200	.400
PHI		
135.000	-.1660	
180.000	-.1710	-.1710
225.000	-.1680	

MACH (1) = 2.498 BETA (4) = 3.060

X/LNM	.200	.400
PHI		
135.000	-.1610	
180.000	-.1770	-.1610
225.000	-.1770	

MACH (1) = 2.498 BETA (5) = 6.240

X/LNM	.200	.400
PHI		
135.000	-.1720	
180.000	-.1720	-.1760
225.000	-.1750	

MACH (2) = 3.501 BETA (1) = -6.700

X/LNM	.200	.400
PHI		
135.000	-.0540	
180.000	-.0650	-.0930
225.000	-.0970	

MACH (2) = 3.501 BETA (2) = -3.420

X/LNM	.200	.400
PHI		
135.000	-.0860	
180.000	-.0970	-.0980
225.000	-.0980	

AMES 87-707 OA12 02A OMS NOZZLE (RB0E18)

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.130

X/LNM	.200	.400
PHI		
135.000	-.0890	
180.000	-.0970	-.0960
225.000	-.0970	

MACH (2) = 3.501 BETA (4) = 3.170

X/LNM	.200	.400
PHI		
135.000	-.0910	
180.000	-.0990	-.0950
225.000	-.0960	

MACH (2) = 3.501 BETA (5) = 6.470

X/LNM	.200	.400
PHI		
135.000	-.0960	
180.000	-.1000	-.0950
225.000	-.1010	

AMES 87-707 OA12 O2A ONS NOZZLE (RB8E19) (16 MAY 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)ONS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

X/LNM	.200	.400
PHI		
135.000	-.1420	
180.000	-.0920	-.1560
225.000	-.1760	

MACH (1) = 2.498 BETA (2) = -3.300

X/LNM	.200	.400
PHI		
135.000	-.1280	
180.000	-.1500	-.1690
225.000	-.1700	

MACH (1) = 2.498 BETA (3) = -.140

X/LNM	.200	.400
PHI		
135.000	-.1680	
180.000	-.1710	-.1730
225.000	-.1710	

MACH (1) = 2.498 BETA (4) = 3.060

X/LNM	.200	.400
PHI		
135.000	-.1730	
180.000	-.1780	-.1800
225.000	-.1800	

MACH (1) = 2.498 BETA (5) = 6.250

X/LNM	.200	.400
PHI		
135.000	-.1770	
180.000	-.1760	-.1790
225.000	-.1770	

MACH (2) = 3.502 BETA (1) = -6.700

X/LNM	.200	.400
PHI		
135.000	-.0980	
180.000	-.0930	-.0970
225.000	-.1030	

MACH (2) = 3.502 BETA (2) = -3.420

X/LNM	.200	.400
PHI		
135.000	-.0900	
180.000	-.0980	-.0990
225.000	-.0990	

AMES 87-707 OA12 O2A OM3 NOZZLE (RBGE19)

SECTION (1)OM3 NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.130

X/LNM	.200	.400
PHI		
135.000	-.0940	
180.000	-.1020	-.1010
225.000	-.1020	

MACH (2) = 3.502 BETA (4) = 3.170

X/LNM	.200	.400
PHI		
135.000	-.0960	
180.000	-.1000	-.0980
225.000	-.1000	

MACH (2) = 3.502 BETA (5) = 6.470

X/LNM	.200	.400
PHI		
135.000	-.0960	
180.000	-.0980	-.0970
225.000	-.1000	

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A OMS NOZZLE (RBGE20) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	30.000	RUDDER =	.000
ELEVON =	10.000	RUDFLR =	40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

X/LNM	.200	.400
PHI		
135.000	-.1430	
180.000	-.1120	-.1580
225.000	-.1690	

MACH (1) = 2.498 BETA (2) = -3.300

X/LNM	.200	.400
PHI		
135.000	-.1270	
180.000	-.1470	-.1710
225.000	-.1710	

MACH (1) = 2.498 BETA (3) = -.130

X/LNM	.200	.400
PHI		
135.000	-.1680	
180.000	-.1720	-.1730
225.000	-.1710	

MACH (1) = 2.498 BETA (4) = 3.060

X/LNM	.200	.400
PHI		
135.000	-.1740	
180.000	-.1770	-.1770
225.000	-.1770	

MACH (1) = 2.498 BETA (5) = 6.240

X/LNM	.200	.400
PHI		
135.000	-.1760	
180.000	-.1800	-.1780
225.000	-.1730	

MACH (2) = 3.501 BETA (1) = -6.700

X/LNM	.200	.400
PHI		
135.000	-.0940	
180.000	-.0930	-.0960
225.000	-.1010	

MACH (2) = 3.501 BETA (2) = -3.420

X/LNM	.200	.400
PHI		
135.000	-.0930	
180.000	-.1000	-.0980
225.000	-.1000	

AMES 87-707 OA12 OEA OMS NOZZLE (R80E20)

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.130

X/LNM	.200	.400
PHI		
135.000	-.0950	
180.000	-.1010	-.1010
225.000	-.1020	

MACH (2) = 3.501 BETA (4) = 3.170

X/LNM	.200	.400
PHI		
135.000	-.0920	
180.000	-.1000	-.1010
225.000	-.0990	

MACH (2) = 3.501 BETA (5) = 6.470

X/LNM	.200	.400
PHI		
135.000	-.0920	
180.000	-.0970	-.0980
225.000	-.0970	

AMES 87-707 OA12 O2A OMS NOZZLE (RB0E21) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8450 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

X/LNM	.200	.400
PHI		
135.000	-.1340	
180.000	-.0860	-.1530
225.000	-.1790	

MACH (1) = 2.498 BETA (2) = -3.310

X/LNM	.200	.400
PHI		
135.000	-.1140	
180.000	-.1410	-.1720
225.000	-.1740	

MACH (1) = 2.498 BETA (3) = -.130

X/LNM	.200	.400
PHI		
135.000	-.1630	
180.000	-.1700	-.1680
225.000	-.1660	

MACH (1) = 2.498 BETA (4) = 3.060

X/LNM	.200	.400
PHI		
135.000	-.1730	
180.000	-.1770	-.1780
225.000	-.1800	

MACH (1) = 2.498 BETA (5) = 6.250

X/LNM	.200	.400
PHI		
135.000	-.1740	
180.000	-.1770	-.1780
225.000	-.1730	

MACH (2) = 3.503 BETA (1) = -6.700

X/LNM	.200	.400
PHI		
135.000	-.1000	
180.000	-.0890	-.0940
225.000	-.1000	

MACH (2) = 3.503 BETA (2) = -3.410

X/LNM	.200	.400
PHI		
135.000	-.0950	
180.000	-.0990	-.0990
225.000	-.1000	

AMES 87-707 OA12 O2A OMS NOZZLE (R8QE21)

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.130

X/LNM	.200	.400
PHI		
135.000	-.0860	
180.000	-.0940	-.0950
225.000	-.0920	

MACH (2) = 3.503 BETA (4) = 3.170

X/LNM	.200	.400
PHI		
135.000	-.0930	
180.000	-.0960	-.0950
225.000	-.0940	

MACH (2) = 3.503 BETA (5) = 6.470

X/LNM	.200	.400
PHI		
135.000	-.0950	
180.000	-.0970	-.0960
225.000	-.0980	

AMES 67-707 OA12 OEA OMS NOZZLE (RBQE22) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -9.630

X/LNM	.200	.400
PHI		
135.000	-.0750	
180.000	-.1550	-.1620
225.000	-.1640	

MACH (1) = 2.498 BETA (2) = -5.610

X/LNM	.200	.400
PHI		
135.000	-.1220	
180.000	-.1400	-.1660
223.000	-.1670	

MACH (1) = 2.498 BETA (3) = .430

X/LNM	.200	.400
PHI		
135.000	-.0890	
180.000	-.0580	-.1090
225.000	-.1460	

MACH (1) = 2.498 BETA (4) = 6.450

X/LNM	.200	.400
PHI		
135.000	-.0380	
180.000	-.0480	-.1050
225.000	-.1040	

MACH (1) = 2.498 BETA (5) = 10.460

X/LNM	.200	.400
PHI		
135.000	-.1670	
180.000	-.0570	-.1250
225.000	-.1340	

MACH (2) = 3.502 BETA (1) = -9.610

X/LNM	.200	.400
PHI		
135.000	-.0700	
180.000	-.0550	-.0690
225.000	-.0970	

MACH (2) = 3.502 BETA (2) = -5.600

X/LNM	.200	.400
PHI		
135.000	-.0160	
180.000	-.0770	-.0930
225.000	-.0980	

AMES 87-707 OA12 O2A CMS NOZZLE (R90E22)

SECTION (1)CMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = .420

X/LNM	.200	.400
PHI		
135.000	-.0770	
180.000	-.0220	-.0760
225.000	-.0870	

MACH (2) = 3.502 BETA (4) = 6.440

X/LNM	.200	.400
PHI		
135.000	-.0940	
180.000	-.0340	-.0430
225.000	-.0470	

MACH (2) = 3.502 BETA (5) = 10.440

X/LNM	.200	.400
PHI		
135.000	-.0810	
180.000	-.0410	-.0700
225.000	-.0680	

AMES 87-707 OA12 O2A OMS NOZZLE (RBGE23) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 15.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -5.560

X/LNM	.200	.400
PHI		
135.000	-.1000	
180.000	-.1530	-.1630
225.000	-.1600	

MACH (1) = 2.498 BETA (2) = .420

X/LNM	.200	.400
PHI		
135.000	.0120	
180.000	-.0440	-.1020
225.000	-.1350	

MACH (1) = 2.498 BETA (3) = 6.340

X/LNM	.200	.400
PHI		
135.000	.0020	
180.000	.1180	.0410
225.000	-.1060	

MACH (2) = 3.502 BETA (1) = -5.340

X/LNM	.200	.400
PHI		
135.000	-.0740	
180.000	-.0780	-.0850
225.000	-.0950	

MACH (2) = 3.502 BETA (2) = .420

X/LNM	.200	.400
PHI		
135.000	-.0430	
180.000	-.0160	-.0450
225.000	-.0630	

MACH (2) = 3.502 BETA (3) = 6.320

X/LNM	.200	.400
PHI		
135.000	-.0120	
180.000	.0290	.0730
225.000	-.0100	

AMES 87-707 OA12 O2A BODY FLAP (RBQFD1) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

BETA =	.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = -.090	X/LB	1.039
	PHI	
	.000	-.0940
	40.000	-.0590
MACH (1) = 2.498 ALPHA (2) = 4.960	X/LB	1.039
	PHI	
	.000	-.0940
	40.000	-.0660
MACH (1) = 2.498 ALPHA (3) = 9.970	X/LB	1.039
	PHI	
	.000	-.0900
	40.000	-.0650
MACH (1) = 2.498 ALPHA (4) = 14.890	X/LB	1.039
	PHI	
	.000	-.1170
	40.000	-.0960
MACH (1) = 2.498 ALPHA (5) = 19.870	X/LB	1.039
	PHI	
	.000	-.1350
	40.000	-.1080
MACH (2) = 3.502 ALPHA (1) = -.020	X/LB	1.039
	PHI	
	.000	-.0590
	40.000	-.0260
MACH (2) = 3.502 ALPHA (2) = 5.170	X/LB	1.039
	PHI	
	.000	-.0660
	40.000	-.0350
MACH (2) = 3.502 ALPHA (3) = 10.130	X/LB	1.039
	PHI	
	.000	-.0750
	40.000	-.0470

AMES 87-707 OA12 02A BODY FLAP (RBQFD1)

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (4) = 15.010

X/LB	1.039
PHI	
.000	-.0320
40.000	-.0580

MACH (2) = 3.502 ALPHA (5) = 20.020

X/LB	1.039
PHI	
.000	-.0840
40.000	-.0630

AMES 87-707 OA12 C2A BODY FLAP (RBQF02) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -3.300

X/LB	1.039
PHI	
.000	-.1150
40.000	-.0640

MACH (1) = 2.498 BETA (2) = 3.060

X/LB	1.039
PHI	
.000	-.1130
40.000	-.0610

MACH (2) = 3.502 BETA (1) = -3.410

X/LB	1.039
PHI	
.000	-.0370
40.000	-.0310

MACH (2) = 3.502 BETA (2) = 3.190

X/LB	1.039
PHI	
.000	-.0220
40.000	-.0300

AMES 67-707 OA12 OEA BODY FLAP (RBOFD3) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	10.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LB	1.039
PHI	
.000	-.1350
40.000	-.0940

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	1.039
PHI	
.000	-.1340
40.000	-.0890

MACH (1) = 2.498 BETA (3) = 3.020

X/LB	1.039
PHI	
.000	-.1340
40.000	-.0920

MACH (1) = 2.498 BETA (4) = 6.200

X/LB	1.039
PHI	
.000	-.1380
40.000	-.0960

MACH (2) = 3.502 BETA (1) = -6.740

X/LB	1.039
PHI	
.000	-.0400
40.000	-.0560

MACH (2) = 3.502 BETA (2) = -3.460

X/LB	1.039
PHI	
.000	-.0750
40.000	-.0520

MACH (2) = 3.502 BETA (3) = 3.140

X/LB	1.039
PHI	
.000	-.0790
40.000	-.0550

MACH (2) = 3.502 BETA (4) = 6.440

X/LB	1.039
PHI	
.000	-.0760
40.000	-.0570

AMES 67-707 OA12 02A BODY FLAP (RBQF04) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

X/LB	1.039
PHI	
.000	-.1260
40.000	-.1050

MACH (1) = 2.498 BETA (2) = -3.310

X/LB	1.039
PHI	
.000	-.1320
40.000	-.1060

MACH (1) = 2.498 BETA (3) = 3.050

X/LB	1.039
PHI	
.000	-.1390
40.000	-.1100

MACH (1) = 2.498 BETA (4) = 6.240

X/LB	1.039
PHI	
.000	-.1720
40.000	-.1680

MACH (2) = 3.502 BETA (1) = -6.710

X/LB	1.039
PHI	
.000	-.0580
40.000	-.0560

MACH (2) = 3.502 BETA (2) = -3.430

X/LB	1.039
PHI	
.000	-.0780
40.000	-.0560

MACH (2) = 3.502 BETA (3) = 3.160

X/LB	1.039
PHI	
.000	-.0830
40.000	-.0630

MACH (2) = 3.502 BETA (4) = 6.470

X/LB	1.039
PHI	
.000	-.0840
40.000	-.0810

AMES 67-707 OA12 C2A BODY FLAP (RBGF05) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	-20.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LB	1.039
PHI	
.000	-.1190
40.000	-.0680

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	1.039
PHI	
.000	-.1130
40.000	-.0510

MACH (1) = 2.498 BETA (3) = -.160

X/LB	1.039
PHI	
.000	-.1060
40.000	-.0510

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	1.039
PHI	
.000	-.1120
40.000	-.0590

MACH (1) = 2.498 BETA (5) = 6.290

X/LB	1.039
PHI	
.000	-.1170
40.000	-.0690

MACH (2) = 3.501 BETA (1) = -6.670

X/LB	1.039
PHI	
.000	-.0710
40.000	-.0400

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	1.039
PHI	
.000	-.0570
40.000	-.0230

MACH (2) = 3.501 BETA (3) = -.160

X/LB	1.039
PHI	
.000	-.0570
40.000	-.0210

[illegible] 87-707 [illegible] BODY FLAP (RB8F03)

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = [illegible] X/L= 1.035

PHI	
.000	-.0660
40.000	-.0330

MACH (2) = 3.501 BETA (5) = 6.530 X/L= 1.029

PHI	
.000	-.0723
40.000	-.0440

AMES 67-707 OA12 02A BODY FLAP (RBQF06) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	10.000	RUDDER =	-20.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LB	1.039
PHI	
.000	-.1350
40.000	-.0900

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	1.039
PHI	
.000	-.1300
40.000	-.0850

MACH (1) = 2.498 BETA (3) = -.160

X/LB	1.039
PHI	
.000	-.1230
40.000	-.0790

MACH (1) = 2.498 BETA (4) = 3.020

X/LB	1.039
PHI	
.000	-.1290
40.000	-.0850

MACH (1) = 2.498 BETA (5) = 6.210

X/LB	1.039
PHI	
.000	-.1330
40.000	-.0890

MACH (2) = 3.501 BETA (1) = -6.750

X/LB	1.039
PHI	
.000	-.0730
40.000	-.0490

MACH (2) = 3.501 BETA (2) = -3.450

X/LB	1.039
PHI	
.000	-.0760
40.000	-.0490

MACH (2) = 3.501 BETA (3) = -.160

X/LB	1.039
PHI	
.000	-.0750
40.000	-.0480

AMES 67-707 OA12 02A BODY FLAP (RB@FD8)

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.140

X/LB	1.039
PHI	
.000	-.0730
40.000	-.0480

MACH (2) = 3.501 BETA (5) = 6.440

Y/LB	1.039
PHI	
.000	-.0770
40.000	-.0530

AMES 67-707 OA12 02A BODY FLAP (RBQFD7) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	-20.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)BODY FLAP

DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

X/LB	1.039
PHI	
.000	-.1390
40.000	-.0970

MACH (1) = 2.498 BETA (2) = -3.320

X/LB	1.039
PHI	
.000	-.1390
40.000	-.0990

MACH (1) = 2.498 BETA (3) = -.150

X/LB	1.039
PHI	
.000	-.1410
40.000	-.1050

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	1.039
PHI	
.000	-.1410
40.000	-.1040

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	1.039
PHI	
.000	-.1460
40.000	-.1080

MACH (2) = 3.501 BETA (1) = -6.710

X/LB	1.039
PHI	
.000	-.0750
40.000	-.0490

MACH (2) = 3.501 BETA (2) = -3.440

X/LB	1.039
PHI	
.000	-.0620
40.000	-.0550

MACH (2) = 3.501 BETA (3) = -.150

X/LB	1.039
PHI	
.000	-.0810
40.000	-.0580

AMES 87-707 OA12 02A BODY FLAP (RBQF07)

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.160

X/LB	1.039
PHI	
.000	-.0820
40.000	-.0570

MACH (2) = 3.501 BETA (5) = 6.470

X/LB	1.039
PHI	
.000	-.0660
40.000	-.0610

AMES 67-707 OA12 02A BODY FLAP (RBQF08) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LB	1.039
PHI	
.000	-.1260
40.000	-.0830

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	1.039
PHI	
.000	-.0920
40.000	-.0760

MACH (1) = 2.498 BETA (3) = -.160

X/LB	1.039
PHI	
.000	-.1060
40.000	-.0740

MACH (1) = 2.498 BETA (4) = 3.000

X/LB	1.039
PHI	
.000	-.1090
40.000	-.0750

MACH (1) = 2.498 BETA (5) = 6.290

X/LB	1.039
PHI	
.000	-.1230
40.000	-.0920

MACH (2) = 3.501 BETA (1) = -6.670

X/LB	1.039
PHI	
.000	-.0730
40.000	-.0490

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	1.039
PHI	
.000	-.0710
40.000	-.0450

MACH (2) = 3.501 BETA (3) = -.17[illegible]

X/LB	1.039
PHI	
.000	-.0650
40.000	-.0360

AMES 87-707 OA12 O2A BODY FLAP (RB9F08)

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.190

X/LB	1.039
PHI	
.000	-.0720
40.000	-.0440

MACH (2) = 3.501 BETA (5) = 6.530

X/LB	1.039
PHI	
.000	-.0760
40.000	-.0530

AMES 87-707 OA12 02A BODY FLAP (RBGF09) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.5000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	10.000	RUDDER =	.000
ELEVON =	10.000	RUDFLR =	40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LB	1.039
PHI	
.000	-.1080
40.000	-.0990

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	1.039
PHI	
.000	-.1180
40.000	-.0930

MACH (1) = 2.498 BETA (3) = -.160

X/LB	1.039
PHI	
.000	-.1260
40.000	-.0950

MACH (1) = 2.498 BETA (4) = 3.020

X/LB	1.039
PHI	
.000	-.1390
40.000	-.1040

MACH (1) = 2.498 BETA (5) = 6.200

X/LB	1.039
PHI	
.000	-.1430
40.000	-.1120

MACH (2) = 3.501 BETA (1) = -6.750

X/LB	1.039
PHI	
.000	-.0800
40.000	-.0590

MACH (2) = 3.501 BETA (2) = -3.450

X/LB	1.039
PHI	
.000	-.0810
40.000	-.0590

MACH (2) = 3.501 BETA (3) = -.160

X/LB	1.039
PHI	
.000	-.0750
40.000	-.0560

AMES 87-707 OA12 O2A BODY FLAP (RBQF09)

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.130

X/LB	1.039
PHI	
.000	-.0650
40.000	-.0650

MACH (2) = 3.501 BETA (5) = 6.440

X/LB	1.039
PHI	
.000	-.0830
40.000	-.0680

AMES 87-707 OA12 02A BODY FLAP (RBQF10) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	.000
ELEVON =	10.000	RUDFLR =	40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

X/LB	1.039
PHI	
.000	-.1260
40.000	-.1230

MACH (1) = 2.498 BETA (2) = -3.320

X/LB	1.039
PHI	
.000	-.1370
40.000	-.1090

MACH (1) = 2.498 BETA (3) = -.160

X/LB	1.039
PHI	
.000	-.1450
40.000	-.1170

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	1.039
PHI	
.000	-.1490
40.000	-.1190

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	1.039
PHI	
.000	-.1770
40.000	-.1750

MACH (2) = 3.501 BETA (1) = -6.710

X/LB	1.039
PHI	
.000	-.0590
40.000	-.0610

MACH (2) = 3.501 BETA (2) = -3.440

X/LB	1.039
PHI	
.000	-.0700
40.000	-.0620

MACH (2) = 3.501 BETA (3) = -.150

X/LB	1.039
PHI	
.000	-.0690
40.000	-.0650

AMES 67-707 OA12 02A BODY FLAP (RBQF10)

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.190

X/LB	1.039
PHI	
.000	-.0850
40.000	-.0700

MACH (2) = 3.501 BETA (5) = 6.480

X/LB	1.039
PHI	
.000	-.0870
40.000	-.0690

AMES 87-707 CA12 C2A BODY FLAP (RB@F11) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.493 BETA (1) = -6.440

X/LB	1.039
PHI	
.000	-.1110
40.000	-.0760

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	1.039
PHI	
.000	-.0880
40.000	-.0600

MACH (1) = 2.496 BETA (3) = -.220

X/LB	1.039
PHI	
.000	-.0870
40.000	-.0570

MACH (1) = 2.498 BETA (4) = 3.070

X/LB	1.039
PHI	
.000	-.0950
40.000	-.0650

MACH (1) = 2.498 BETA (5) = 6.300

X/LB	1.039
PHI	
.000	-.1120
40.000	-.0840

MACH (2) = 3.502 BETA (1) = -6.670

X/LB	1.039
PHI	
.000	-.0610
40.000	-.0370

MACH (2) = 3.502 BETA (2) = -3.410

X/LB	1.039
PHI	
.000	-.0610
40.000	-.0350

MACH (2) = 3.502 BETA (3) = -.160

X/LB	1.039
PHI	
.000	-.0560
40.000	-.0280

AMES 87-707 OA12 02A BODY FLAP (RBQF11)

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.502 EETA (4) = 3.180

X/LB	1.039
PHI	
.000	-.0620
40.000	-.0370

MACH (2) = 3.502 BETA (5) = 6.530

X/LB	1.039
PHI	
.000	-.0660
40.000	-.0450

AMES 67-707 OA12 02A BODY FLAP (RBQF12) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	10.000	RUDDER =	.000
ELEVON =	-20.000	RUDFLR =	40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.530

X/LB	1.039
PHI	
.000	-.1110
40.000	-.0920

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	1.039
PHI	
.000	-.1180
40.000	-.0900

MACH (1) = 2.498 BETA (3) = -.170

X/LB	1.039
PHI	
.000	-.0830
40.000	-.0850

MACH (1) = 2.498 BETA (4) = 3.020

X/LB	1.039
PHI	
.000	-.1180
40.000	-.0910

MACH (1) = 2.498 BETA (5) = 6.200

X/LB	1.039
PHI	
.000	-.0920
40.000	-.1010

MACH (2) = 3.502 BETA (1) = -6.750

X/LB	1.039
PHI	
.000	-.0770
40.000	-.0570

MACH (2) = 3.502 BETA (2) = -3.460

X/LB	1.039
PHI	
.000	-.0710
40.000	-.0520

MACH (2) = 3.502 BETA (3) = -.160

X/LB	1.039
PHI	
.000	-.0740
40.000	-.0520

AMES 87-707 OA12 02A BODY FLAP (RB9F12)

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.140

X/LB	1.039
PHI	
.000	-.0740
40.000	-.0570

MACH (2) = 3.502 BETA (5) = 6.430

X/LB	1.039
PHI	
.000	-.0840
40.000	-.0660

AMES 67-707 CA12 02A BODY FLAP (RBQF13) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.6490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	.000
ELEVON =	-20.000	RUDFLR =	40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

X/LB	1.039
PHI	
.000	-.1130
40.000	-.1110

MACH (1) = 2.498 BETA (2) = -3.330

X/LB	1.039
PHI	
.000	-.1470
40.000	-.1160

MACH (1) = 2.498 BETA (3) = -.160

X/LB	1.039
PHI	
.000	-.1500
40.000	-.1250

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	1.039
PHI	
.000	-.1490
40.000	-.1220

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	1.039
PHI	
.000	-.1740
40.000	-.1750

MACH (2) = 3.502 BETA (1) = -6.710

X/LB	1.039
PHI	
.000	-.0570
40.000	-.0550

MACH (2) = 3.502 BETA (2) = -3.440

X/LB	1.039
PHI	
.000	-.0700
40.000	-.0620

MACH (2) = 3.502 BETA (3) = -.160

X/LB	1.039
PHI	
.000	-.0730
40.000	-.0650

AMES 87-707 OA12 C2A BODY FLAP (RBQF13)

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.160

X/LB	1.039
PHI	
.000	-.0850
40.000	-.0700

MACH (2) = 3.502 BETA (5) = 6.470

X/LB	1.039
PHI	
.000	-.0880
40.000	-.0730

AMES 87-707 OA12 02A BODY FLAP (RBQF14) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0500 SCALE				

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	.000
ELEVON =	-40.000	RUDFLR =	40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LB	1.039
PHI	
.000	-.1120
40.000	-.0740

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	1.039
PHI	
.000	-.1070
40.000	-.0630

MACH (1) = 2.498 BETA (3) = -.170

X/LB	1.039
PHI	
.000	-.1040
40.000	-.0610

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	1.039
PHI	
.000	-.1020
40.000	-.0630

MACH (1) = 2.498 BETA (5) = 6.290

X/LB	1.039
PHI	
.000	-.1130
40.000	-.0760

MACH (2) = 3.503 BETA (1) = -6.670

X/LB	1.039
PHI	
.000	-.0420
40.000	-.0420

MACH (2) = 3.503 BETA (2) = -3.420

X/LB	1.039
PHI	
.000	-.0390
40.000	-.0300

MACH (2) = 3.503 BETA (3) = -.170

X/LB	1.039
PHI	
.000	-.0410
40.000	-.0290

AMES 87-707 OA12 O2A BODY FLAP (RBQF14)

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.180

X/LB	1.039
PHI	
.000	-.0390
40.000	-.0350

MACH (2) = 3.503 BETA (5) = 6.520

X/LB	1.039
PHI	
.000	-.0320
40.000	-.0450

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 O2A BODY FLAP (RBQF15) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	10.000	RUDDER =	.000
ELEVON =	-40.000	RUDFLR =	40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LB	1.039
PHI	
.000	-.1190
40.000	-.0860

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	1.039
PHI	
.000	-.1210
40.000	-.0890

MACH (1) = 2.498 BETA (3) = -.170

X/LB	1.039
PHI	
.000	-.1180
40.000	-.0840

MACH (1) = 2.498 BETA (4) = 3.020

X/LB	1.039
PHI	
.000	-.1230
40.000	-.0920

MACH (1) = 2.498 BETA (5) = 6.200

X/LB	1.039
PHI	
.000	-.1260
40.000	-.1010

MACH (2) = 3.503 BETA (1) = -6.750

X/LB	1.039
PHI	
.000	-.0710
40.000	-.0570

MACH (2) = 3.503 BETA (2) = -3.460

X/LB	1.039
PHI	
.000	-.0590
40.000	-.0520

MACH (2) = 3.503 BETA (3) = -.160

X/LB	1.039
PHI	
.000	-.0530
40.000	-.0510

AMES 87-707 OA12 C2A BODY FLAP (RBQF15)

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.130

X/LB	1.039
PHI	
.000	-.0770
40.000	-.0560

MACH (2) = 3.503 BETA (5) = 6.430

X/LB	1.039
PHI	
.000	-.0860
40.000	-.0670

AMES 87-707 OA12 02A BODY FLAP (RBQF16) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	.000
ELEVON =	-40.000	RUDFLR =	40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

X/LB	1.039
PHI	
.000	-.1110
40.000	-.1080

MACH (1) = 2.498 BETA (2) = -3.320

X/LB	1.039
PHI	
.000	-.1300
40.000	-.1150

MACH (1) = 2.498 BETA (3) = -.160

X/LB	1.039
PHI	
.000	-.1490
40.000	-.1190

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	1.039
PHI	
.000	-.1490
40.000	-.1210

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	1.039
PHI	
.000	-.1520
40.000	-.1230

MACH (2) = 3.503 BETA (1) = -6.720

X/LB	1.039
PHI	
.000	-.0610
40.000	-.0540

MACH (2) = 3.503 BETA (2) = -3.440

X/LB	1.039
PHI	
.000	-.0680
40.000	-.0610

MACH (2) = 3.503 BETA (3) = -.160

X/LB	1.039
PHI	
.000	-.0660
40.000	-.0610

AMES 87-707 OA12 C2A BODY FLAP (R8QF16)

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.150

X/LB	1.039
PHI	
.000	-.0560
40.000	-.0670

MACH (2) = 3.503 BETA (5) = 6.470

X/LB	1.039
PHI	
.000	-.0700
40.000	-.0700

AMES 87-707 OA12 O2A BODY FLAP (RBQF17) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

BETA =	.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = 15.200

X/LB	1.039
PHI	
.000	-.0760
40.000	-.0890

MACH (1) = 2.498 ALPHA (2) = 20.250

X/LB	1.039
PHI	
.000	-.1080
40.000	-.1070

MACH (1) = 2.498 ALPHA (3) = 25.180

X/LB	1.039
PHI	
.000	-.1040
40.000	-.1140

MACH (1) = 2.498 ALPHA (4) = 30.150

X/LB	1.039
PHI	
.000	-.1220
40.000	-.1140

MACH (1) = 2.498 ALPHA (5) = 35.290

X/LB	1.039
PHI	
.000	-.1200
40.000	-.1170

MACH (1) = 2.498 ALPHA (6) = 38.670

X/LB	1.039
PHI	
.000	-.1460
40.000	-.1180

MACH (2) = 3.501 ALPHA (1) = 15.160

X/LB	1.039
PHI	
.000	-.0780
40.000	-.0570

MACH (2) = 3.501 ALPHA (2) = 20.230

X/LB	1.039
PHI	
.000	-.0820
40.000	-.0620

AMES 87-707 OA12 C2A BODY FLAP (RDGF17)

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (3) = 25.240

X/LB	1.039
PHI	
.000	-.0760
40.000	-.0590

MACH (2) = 3.501 ALPHA (4) = 30.110

X/LB	1.039
PHI	
.000	-.0760
40.000	-.0550

MACH (2) = 3.501 ALPHA (5) = 35.250

X/LB	1.039
PHI	
.000	-.0760
40.000	-.0510

MACH (2) = 3.501 ALPHA (6) = 38.630

X/LB	1.039
PHI	
.000	-.0690
40.000	-.0440

AMES 67-707 OA12 O2A BODY FLAP (RBQF18) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

X/LB	1.039
PHI	
.000	-.1040
40.000	-.1120

MACH (1) = 2.498 BETA (2) = -3.310

X/LB	1.039
PHI	
.000	-.1260
40.000	-.1120

MACH (1) = 2.498 BETA (3) = -.130

X/LB	1.039
PHI	
.000	-.1020
40.000	-.1140

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	1.039
PHI	
.000	-.1640
40.000	-.1640

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	1.039
PHI	
.000	-.1280
40.000	-.1210

MACH (2) = 3.501 BETA (1) = -6.700

X/LB	1.039
PHI	
.000	-.0660
40.000	-.0540

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	1.039
PHI	
.000	-.0690
40.000	-.0600

MACH (2) = 3.501 BETA (3) = -.130

X/LB	1.039
PHI	
.000	-.0770
40.000	-.0540

DATE 10 SEP 73 TABULATED PRESSURE DATA - 0412. (RBOF18)

AMES 6?-7?? 0A12 02A BOD. FLAP

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.170

X/L3	1.039
PHI	
.000	-.0780
45.000	-.0590

MACH (2) = 3.501 BETA (5) = 6.170

X/L3	1.039
PHI	
.000	-.0860
45.000	-.0650

AMES 87-707 OA12 OEA BODY FLAP (RBQF19) (16 MAY 73)

REFERENCE DATA

SREF	=	2.4210 SQ.FT.	XMRP	=	32.3000 INCHES
LREF	=	39.8490 INCHES	YMRP	=	.0000 INCHES
BREF	=	39.8490 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0300 SCALE			

PARAMETRIC DATA

ALPHA =	30.000	RUDDER =	-20.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

X/LB	1.039
PHI	
.000	-.1510
40.000	-.1140

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	1.039
PHI	
.000	-.1470
40.000	-.1170

MACH (1) = 2.498 BETA (3) = -.140

X/LB	1.039
PHI	
.000	-.1460
40.000	-.1130

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	1.039
PHI	
.000	-.1530
40.000	-.1180

MACH (1) = 2.498 BETA (5) = 6.250

X/LB	1.039
PHI	
.000	-.1530
40.000	-.1210

MACH (2) = 3.502 BETA (1) = -6.700

X/LB	1.039
PHI	
.000	-.0770
40.000	-.0520

MACH (2) = 3.502 BETA (2) = -3.420

X/LB	1.039
PHI	
.000	-.0740
40.000	-.0500

MACH (2) = 3.502 BETA (3) = -.130

X/LB	1.039
PHI	
.000	-.0790
40.000	-.0540

AMES 87-707 OA12 02A BODY FLAP (RBSF19)

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.170

X/LB	1.039
PHI	
.000	-.0780
40.000	-.0580

MACH (2) = 3.502 BETA (5) = 6.473

X/LB	1.039
PHI	
.000	-.0770
40.000	-.0570

DATE 10 SEP 75 TABULATED PRESSURE DATA - OA12C (RB@F20) (16 MAY 73)

AMES 97-707 OA12 02A BODY FLAP

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

X/LB	1.039
PHI	
.000	-.1440
40.000	-.1040

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	1.039
PHI	
.000	-.1440
40.000	-.1060

MACH (1) = 2.498 BETA (3) = -.130

X/LB	1.039
PHI	
.000	-.1430
40.000	-.1030

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	1.039
PHI	
.000	-.1430
40.000	-.1070

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	1.039
PHI	
.000	-.1440
40.000	-.1090

MACH (2) = 3.501 BETA (1) = -6.700

X/LB	1.039
PHI	
.000	-.0710
40.000	-.0420

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	1.039
PHI	
.000	-.0710
40.000	-.0450

MACH (2) = 3.501 BETA (3) = -.130

X/LB	1.039
PHI	
.000	-.0730
40.000	-.0450

AMES 87-707 OA12 02A BODY FLAP (RBQF20)

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.170

X/LE	1.039
PHI	
.000	-.0720
40.000	-.0500

MACH (2) = 3.501 BETA (5) = 6.470

X/LB	1.039
PHI	
.000	-.0740
40.000	-.0500

AMES 87-707 OA12 02A BODY FLAP (RBQF21) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	30.000	RUDDER =	.000
ELEVON =	-20.000	RUDFLR =	40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

X/LB	1.039
PHI	
.000	-.1530
40.000	-.1190

MACH (1) = 2.498 BETA (2) = -3.310

X/LB	1.039
PHI	
.000	-.1530
40.000	-.1190

MACH (1) = 2.498 BETA (3) = -.130

X/LB	1.039
PHI	
.000	-.1650
40.000	-.1640

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	1.039
PHI	
.000	-.1530
40.000	-.1230

MACH (1) = 2.498 BETA (5) = 6.250

X/LB	1.039
PHI	
.000	-.1580
40.000	-.1270

MACH (2) = 3.503 BETA (1) = -6.700

X/LB	1.039
PHI	
.000	-.0760
40.000	-.0560

MACH (2) = 3.503 BETA (2) = -3.410

X/LB	1.039
PHI	
.000	-.0790
40.000	-.0580

MACH (2) = 3.503 BETA (3) = -.130

X/LB	1.039
PHI	
.000	-.0760
40.000	-.0540

AMES 67-707 OA12 C2A BODY FLAP (RBGF21)

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.170

X/LB	1.039
PHI	
.000	-.0780
40.000	-.0590

MACH (2) = 3.503 BETA (5) = 6.470

X/LB	1.039
PHI	
.000	-.0820
40.000	-.0630

AMES 87-707 OA12 02A BODY FLAP (RBQF22) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -9.630

X/LB	1.039
PHI	
.000	-.1340
40.000	-.0960

MACH (1) = 2.498 BETA (2) = -5.610

X/LB	1.039
PHI	
.000	-.1020
40.000	-.0970

MACH (1) = 2.498 BETA (3) = .430

X/LB	1.039
PHI	
.000	-.1390
40.000	-.1070

MACH (1) = 2.498 BETA (4) = 6.450

X/LB	1.039
PHI	
.000	-.1440
40.000	-.1100

MACH (1) = 2.498 BETA (5) = 10.460

X/LB	1.039
PHI	
.000	-.1720
40.000	-.1710

MACH (2) = 3.502 BETA (1) = -9.610

X/LB	1.039
PHI	
.000	-.0300
40.000	-.0450

MACH (2) = 3.502 BETA (2) = -5.600

X/LB	1.039
PHI	
.000	-.0790
40.000	-.0540

MACH (2) = 3.502 BETA (3) = .420

X/LB	1.039
PHI	
.000	-.0780
40.000	-.0610

AMES 87-707 OA12 02A BODY FLAP (RBQF22)

SECTION (1)BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 3.902 BETA (4) = 6.440 X/LB 1.039

PHI	
.000	-.0800
40.000	-.0630

MACH (2) = 3.902 BETA (5) = 10.440 X/LB 1.039

PHI	
.000	-.0830
40.000	-.0630

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A BODY FLAP (RBQF23) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	35.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	15.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)BODY FLAP

DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -5.560

X/LB	1.039
PHI	
.000	-.1370
40.000	-.0970

MACH (1) = 2.498 BETA (2) = .420

X/LB	1.039
PHI	
.000	-.1310
40.000	-.0870

MACH (1) = 2.498 BETA (3) = 6.340

X/LB	1.039
PHI	
.000	-.1410
40.000	-.0990

MACH (2) = 3.502 BETA (1) = -5.540

X/LB	1.039
PHI	
.000	-.0480
40.000	-.0530

MACH (2) = 3.502 BETA (2) = .420

X/LB	1.039
PHI	
.000	-.0540
40.000	-.0540

MACH (2) = 3.502 BETA (3) = 6.320

X/LB	1.039
PHI	
.000	-.0770
40.000	-.0600

AMES 67-707 GA12 G2A OMS POD OUTSIDE (RBQM01) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

BETA =	.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = -.090

X/LB	1.001
PHI	
110.000	-.0390
120.000	-.0100

MACH (1) = 2.498 ALPHA (2) = 4.980

X/LB	1.001
PHI	
110.000	-.0920
120.000	-.0480

MACH (1) = 2.498 ALPHA (3) = 9.970

X/LB	1.001
PHI	
110.000	-.0340
120.000	-.0940

MACH (1) = 2.498 ALPHA (4) = 14.990

X/LB	1.001
PHI	
110.000	-.0540
120.000	-.1150

MACH (1) = 2.498 ALPHA (5) = 19.870

X/LB	1.001
PHI	
110.000	-.0920
120.000	-.1360

MACH (2) = 3.502 ALPHA (1) = -.020

X/LB	1.001
PHI	
110.000	.0240
120.000	.0160

MACH (2) = 3.502 ALPHA (2) = 3.170

X/LB	1.001
PHI	
110.000	.0000
120.000	-.0110

MACH (2) = 3.502 ALPHA (3) = 10.150

X/LB	1.001
PHI	
110.000	-.0180
120.000	-.0380

DATE 10 SEP 75 TABULATED PRESSURE DATA - OA12C (RBQM01)

AMES 87-707 OA12 OEA OMS POD OUTSIDE

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (4) = 15.050

X/LB	1.001
PHI	
110.000	-.0400
120.000	-.0580

MACH (2) = 3.502 ALPHA (5) = 20.020

X/LB	1.001
PHI	
110.000	-.0690
120.000	-.0720

DATE 10 SEP 79 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A OMS POD OUTSIDE (RB2M02) (15 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -3.300

X/LB	1.001
PHI	
110.000	-.0060
120.000	.0080

MACH (1) = 2.498 BETA (2) = 3.060

X/LB	1.001
PHI	
110.000	-.0070
120.000	-.0160

MACH (2) = 3.502 BETA (1) = -3.410

X/LB	1.001
PHI	
110.000	.0320
120.000	.0460

MACH (2) = 3.502 BETA (2) = 3.190

X/LB	1.001
PHI	
110.000	.0200
120.000	-.0200

AMES 87-707 OA12 CEA OMS POD OUTSIDE (RBQM03) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	10.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LB	1.001
PHI	
110.000	-.0520
120.000	-.0480

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	1.001
PHI	
110.000	-.0560
120.000	-.0750

MACH (1) = 2.498 BETA (3) = 3.020

X/LB	1.001
PHI	
110.000	-.0580
120.000	-.0830

MACH (1) = 2.498 BETA (4) = 6.200

X/LB	1.001
PHI	
110.000	-.0660
120.000	-.0970

MACH (2) = 3.502 BETA (1) = -6.740

X/LB	1.001
PHI	
110.000	-.0310
120.000	-.0330

MACH (2) = 3.502 BETA (2) = -3.460

X/LB	1.001
PHI	
110.000	-.0340
120.000	-.0320

MACH (2) = 3.502 BETA (3) = 3.140

X/LB	1.001
PHI	
110.000	-.0180
120.000	-.0480

MACH (2) = 3.502 BETA (4) = 6.440

X/LB	1.001
PHI	
110.000	-.0380
120.000	-.0520

AMES 87-707 OA12 O2A OMS POD OUTSIDE (RBQM04) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	59.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	59.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

X/LB	1.001
PHI	
110.000	-.1060
120.000	-.1540

MACH (1) = 2.498 BETA (2) = -3.510

X/LB	1.001
PHI	
110.000	-.0730
120.000	-.1320

MACH (1) = 2.498 BETA (3) = 3.050

X/LB	1.001
PHI	
110.000	-.0800
120.000	-.1380

MACH (1) = 2.498 BETA (4) = 6.240

X/LB	1.001
PHI	
110.000	-.0820
120.000	-.1730

MACH (2) = 3.502 BETA (1) = -6.710

X/LB	1.001
PHI	
110.000	-.0580
120.000	-.0590

MACH (2) = 3.502 BETA (2) = -3.430

X/LB	1.001
PHI	
110.000	-.0290
120.000	-.0510

MACH (2) = 3.502 BETA (3) = 3.160

X/LB	1.001
PHI	
110.000	-.0500
120.000	-.0780

MACH (2) = 3.502 BETA (4) = 6.470

X/LB	1.001
PHI	
110.000	-.0410
120.000	-.0890

AMES 97-707 OA12 O2A OMS POD OUTSIDE (RBGM05) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	-20.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LB	1.001
PHI	
110.000	-.0320
120.000	.0360

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	1.001
PHI	
110.000	-.0220
120.000	.0090

MACH (1) = 2.498 BETA (3) = -.160

X/LB	1.001
PHI	
110.000	-.0130
120.000	-.0060

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	1.001
PHI	
110.000	-.0180
120.000	-.0150

MACH (1) = 2.498 BETA (5) = 6.230

X/LB	1.001
PHI	
110.000	-.0330
120.000	-.0430

MACH (2) = 3.501 BETA (1) = -6.670

X/LB	1.001
PHI	
110.000	-.0060
120.000	.0810

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	1.001
PHI	
110.000	.0250
120.000	.0480

MACH (2) = 3.501 BETA (3) = -.160

X/LB	1.001
PHI	
110.000	.0320
120.000	.0170

AMER 87-757 OA12 02A OMS POD OUTSIDE (RB2MD5)

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.180

X/LB	1.001
PHI	
110.000	.0170
120.000	-.0240

MACH (2) = 3.501 BETA (5) = 6.539

X/LB	1.001
PHI	
110.000	-.0300
120.000	-.0440

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 OEA CMS POD OUTSIDE (RBQM06) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	10.000	RUDDER =	-20.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)CMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LB	1.001
PHI	
110.000	-.0510
120.000	-.0480

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	1.001
PHI	
110.000	-.0450
120.000	-.0720

MACH (1) = 2.498 BETA (3) = -.160

X/LB	1.001
PHI	
110.000	-.0390
120.000	-.0810

MACH (1) = 2.498 BETA (4) = 3.020

X/LB	1.001
PHI	
110.000	-.0360
120.000	-.0760

MACH (1) = 2.498 BETA (5) = 6.210

X/LB	1.001
PHI	
110.000	-.0430
120.000	-.0940

MACH (2) = 3.301 BETA (1) = -6.750

X/LB	1.001
PHI	
110.000	-.0280
120.000	.0110

MACH (2) = 3.301 BETA (2) = -3.450

X/LB	1.001
PHI	
110.000	-.0320
120.000	-.0330

MACH (2) = 3.301 BETA (3) = -.160

X/LB	1.001
PHI	
110.000	-.0130
120.000	-.0350

DATE 10 SEP 79 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 C2A OMS POD OUTSIDE (RBQMD6)

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.140

X/LB	1.001
PHI	
110.000	-.0090
120.000	-.0410

MACH (2) = 3.501 BETA (5) = 6.440

X/LB	1.001
PHI	
110.000	-.0350
120.000	-.0510

AMES 87-707 OA12 02A OMS POD OUTSIDE (RBQM07) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.6490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.6490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	-20.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

X/LB	1.001
PHI	
110.000	-.0610
120.000	-.0660

MACH (1) = 2.498 BETA (2) = -3.320

X/LB	1.001
PHI	
110.000	-.0690
120.000	-.0700

MACH (1) = 2.498 BETA (3) = -.150

X/LB	1.001
PHI	
110.000	-.0860
120.000	-.0910

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	1.001
PHI	
110.000	-.0840
120.000	-.1090

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	1.001
PHI	
110.000	-.1210
120.000	-.1320

MACH (2) = 3.501 BETA (1) = -6.710

X/LB	1.001
PHI	
110.000	-.0250
120.000	-.0290

MACH (2) = 3.501 BETA (2) = -3.440

X/LB	1.001
PHI	
110.000	-.0640
120.000	-.0650

MACH (2) = 3.501 BETA (3) = -.150

X/LB	1.001
PHI	
110.000	-.0580
120.000	-.0730

AMES 87-707 OA12 OEA OMS POD OUTSIDE (RBOMD7)

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.160

X/LB	1.001
PHI	
110.000	-.0470
120.000	-.0750

MACH (2) = 3.501 BETA (5) = 6.470

X/LB	1.001
PHI	
110.000	-.0590
120.000	-.0970

AMES 87-737 0X12 CEA CMS POD OUTSIDE (RBQMD8) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	52.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	.000
ELEVON =	10.000	RUDFLR =	40.000

SECTION (1)CMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LB	1.001
PHI	
110.000	-.0570
120.000	-.0570

MACH (1) = 2.49[illegible] BETA (2) = -3.300

X/LB	1.001
PHI	
110.000	-.0440
120.000	-.0430

MACH (1) = 2.498 BETA (3) = -.160

X/LB	1.001
PHI	
110.000	-.0170
120.000	-.0040

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	1.001
PHI	
110.000	-.0180
120.000	-.0170

MACH (1) = 2.498 BETA (5) = 6.290

X/LB	1.001
PHI	
110.000	-.0440
120.000	-.0470

MACH (2) = 3.501 BETA (1) = -6.670

X/LB	1.001
PHI	
110.000	.0120
120.000	.0830

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	1.001
PHI	
110.000	.0210
120.000	.0430

MACH (2) = 3.501 BETA (3) = -.170

X/LB	1.001
PHI	
110.000	.0180
120.000	.0120

AMES 67-707 OA12 OEA OMS POD OUTSIDE (RBGMD8)

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.190 X/LB 1.001

PHI	
110.000	.0110
120.000	-.0230

MACH (2) = 3.501 BETA (5) = 6.530 X/LB 1.001

PHI	
110.000	-.0320
120.000	-.0440

AMES 87-707 OA12 02A OMS POD OUTSIDE (RBQM09) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8450 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	10.000	RUDDER =	.000
ELEVON =	10.000	RUDFLR =	0.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

X/LB	1.001
PHI	
110.000	-.0370
120.000	-.0440

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	1.001
PHI	
110.000	-.0440
120.000	-.0690

MACH (1) = 2.498 BETA (3) = -.160

X/LB	1.001
PHI	
110.000	-.0350
120.000	-.0830

MACH (1) = 2.498 BETA (4) = 3.020

X/LB	1.001
PHI	
110.000	-.0480
120.000	-.0770

MACH (1) = 2.498 BETA (5) = 6.200

X/LB	1.001
PHI	
110.000	-.0570
120.000	-.0950

MACH (2) = 3.501 BETA (1) = -6.750

X/LB	1.001
PHI	
110.000	-.0310
120.000	.0070

MACH (2) = 3.501 BETA (2) = -3.430

X/LB	1.001
PHI	
110.000	-.0310
120.000	-.0190

MACH (2) = 3.501 BETA (3) = -.160

X/LB	1.001
PHI	
110.000	-.0170
120.000	-.0360

AMES 87-707 OA12 OEA OMS POD OUTSIDE (RBOM09)

SECTION (1)OMS POD OUTSIDE DEFENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.130

X/LB	1.001
PHI	
110.000	-.0130
120.000	-.0460

MACH (2) = 3.501 BETA (5) = 6.440

X/LB	1.001
PHI	
110.000	-.0410
120.000	-.0570

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AMES 87-707 OA12 02A OMS POD OUTSIDE (RBQM10) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8450 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	.000
ELEVON =	10.000	RUDFLR =	40.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

X/LB	1.001
PHI	
110.000	-.1270
120.000	-.1260

MACH (1) = 2.498 BETA (2) = -3.320

X/LB	1.001
PHI	
110.000	-.0820
120.000	-.1220

MACH (1) = 2.498 BETA (3) = -.160

X/LB	1.001
PHI	
110.000	-.0990
120.000	-.1330

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	1.001
PHI	
110.000	-.0950
120.000	-.1340

MACH (1) = 2.498 BETA (5) = 5.240

X/LB	1.001
PHI	
110.000	-.0770
120.000	-.1770

MACH (2) = 3.501 BETA (1) = -6.710

X/LB	1.001
PHI	
110.000	-.0630
120.000	-.0620

MACH (2) = 3.501 BETA (2) = -3.440

X/LB	1.001
PHI	
110.000	-.0700
120.000	-.0700

MACH (2) = 3.501 BETA (3) = -.150

X/LB	1.001
PHI	
110.000	-.0690
120.000	-.0690

DATE 10 SEP 73 TABULATED PRESSURE DATA - CA12C

AMES 87-707 CH.2 22A CMS POD OUTSIDE (RBOM10)

SECTION (1)CMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.160

X/L3	1.001
PHI	
110.000	-.0830
120.000	-.0770

MACH (2) = 3.501 BETA (5) = 6.440

X/L9	1.001
PHI	
110.000	-.0810
120.000	-.0760

AMES 87-707 OA12 02A OMS POD OUTSIDE (RBOM11) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	.000
ELEVON =	-20.000	RUDFLR =	40.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LB	1.001
PHI	
110.000	-.0440
120.000	.0360

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	1.001
PHI	
110.000	-.0040
120.000	.0170

MACH (1) = 2.498 BETA (3) = -.220

X/LB	1.001
PHI	
110.000	-.0070
120.000	.0020

MACH (1) = 2.498 BETA (4) = 3.070

X/LE	1.001
PHI	
110.000	-.0140
120.000	-.0160

MACH (1) = 2.498 BETA (5) = 6.300

X/LB	1.001
PHI	
110.000	-.0360
120.000	-.0490

MACH (2) = 3.502 BETA (1) = -6.670

X/LB	1.001
PHI	
110.000	.0330
120.000	.0880

MACH (2) = 3.502 BETA (2) = -3.410

X/LB	1.001
PHI	
110.000	.0310
120.000	.0470

MACH (2) = 3.502 BETA (3) = -.160

X/LB	1.001
PHI	
110.000	.0280
120.000	.0190

AMES 87-707 OA12 O2A OMS POD OUTSIDE (RBOM11)

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.180

X/LB	1.001
PHI	
110.000	.0190
120.000	-.0200

MACH (2) = 3.502 BETA (5) = 6.530

X/LB	1.001
PHI	
110.000	-.0280
120.000	-.0430

AMES 87-707 OA1E 02A OMS POD OUTSIDE (RBQM12) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	10.000	RUDDER =	.000
ELEVON =	-20.000	RUDFLR =	40.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.530

X/LB	1.001
PHI	
110.000	-.0400
120.000	-.0440

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	1.001
PHI	
110.000	-.0450
120.000	-.0720

MACH (1) = 2.498 BETA (3) = -.170

X/LB	1.001
PHI	
110.000	-.0310
120.000	-.0810

MACH (1) = 2.498 BETA (4) = 3.020

X/LB	1.001
PHI	
110.000	-.0450
120.000	-.0730

MACH (1) = 2.495 BETA (5) = 6.200

X/LB	1.001
PHI	
110.000	-.0550
120.000	-.0930

MACH (2) = 3.502 BETA (1) = -6.750

X/LB	1.001
PHI	
110.000	-.0280
120.000	.0100

MACH (2) = 3.502 BETA (2) = -3.460

X/LB	1.001
PHI	
110.000	-.0270
120.000	-.0130

MACH (2) = 3.502 BETA (3) = -.160

X/LB	1.001
PHI	
110.000	-.0140
120.000	-.0340

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AMES 67-707 OA12 OEA OMS POD OUTSIDE (RB2H12)

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.140

X/LB	1.001
PHI	
110.000	-.0080
120.000	-.0420

MACH (2) = 3.502 BETA (5) = 6.430

X/LB	1.001
PHI	
110.000	-.0490
120.000	-.0560

AMES 87-707 OA12 O2A OMS POD OUTSIDE (RBQM13) (16 MAY 73)

REFERENCE DATA

SREF	=	2.4210 SQ.FT.	XMRP	=	32.3000 INCHES
LREF	=	39.8490 INCHES	YMRP	=	.0000 INCHES
BREF	=	39.8490 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0300 SCALE			

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	.000
ELEVON =	-20.000	RUDFLR =	40.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

X/LB	1.001
PHI	
110.000	-.1140
120.000	-.1120

MACH (1) = 2.498 BETA (2) = -3.330

X/LB	1.001
PHI	
110.000	-.0890
120.000	-.1230

MACH (1) = 2.498 BETA (3) = -.160

X/LB	1.001
PHI	
110.000	-.1060
120.000	-.1300

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	1.001
PHI	
110.000	-.0580
120.000	-.1240

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	1.001
PHI	
110.000	-.0760
120.000	-.1730

MACH (2) = 3.502 BETA (1) = -6.710

X/LB	1.001
PHI	
110.000	-.0590
120.000	-.0580

MACH (2) = 3.502 BETA (2) = -3.440

X/LB	1.001
PHI	
110.000	-.0710
120.000	-.0710

MACH (2) = 3.502 BETA (3) = -.160

X/LB	1.001
PHI	
110.000	-.0670
120.000	-.0670

AMES 87-707 OA12 O2A OMS POD OUTSIDE (RBQM13)

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.460

X/LB	1.001
PHI	
110.000	-.0500
120.000	-.0770

MACH (2) = 3.502 BETA (5) = 6.470

X/LB	1.001
PHI	
110.000	-.0620
120.000	-.0950

AMES 67-707 OA12 O2A OMS POD OUTSIDE (RBQM14) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	29.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	.000
ELEVON =	-40.000	RUDFLR =	40.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

X/LB	1.001
PHI	
110.000	.1650
120.000	.2330

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	1.001
PHI	
110.000	.1430
120.000	.1890

MACH (1) = 2.498 BETA (3) = -.170

X/LB	1.001
PHI	
110.000	-.0020
120.000	.1020

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	1.001
PHI	
110.000	-.0050
120.000	.0810

MACH (1) = 2.498 BETA (5) = 6.290

X/LB	1.001
PHI	
110.000	.1070
120.000	.0510

MACH (2) = 3.503 BETA (1) = -6.670

X/LB	1.001
PHI	
110.000	.0270
120.000	.1040

MACH (2) = 3.503 BETA (2) = -3.420

X/LB	1.001
PHI	
110.000	.0360
120.000	.0670

MACH (2) = 3.503 BETA (3) = -.170

X/LB	1.001
PHI	
110.000	.0340
120.000	.0440

AMES 87-707 OA12 OBA CMS POD OUTSIDE (RBQM14)

SECTION (1)CMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.180

X/LB	1.001
PHI	
110.000	.0240
120.000	.0000

MACH (2) = 3.503 BETA (5) = 6.520

X/LB	1.001
PHI	
110.000	-.0330
120.000	-.0320

AMES 87-707 OA12 02A OMS POD OUTSIDE (RBQM15) (16 MAY 75)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	10.000	RUDDER =	.000
ELEVON =	-40.000	RUDFLR =	40.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.320

X/LB	1.001
PHI	
110.000	.1080
120.000	.0200

MACH (1) = 2.498 BETA (2) = -3.340

X/LB	1.001
PHI	
110.000	-.0470
120.000	-.0140

MACH (1) = 2.498 BETA (3) = -.170

X/LB	1.001
PHI	
110.000	-.0310
120.000	-.0270

MACH (1) = 2.498 BETA (4) = 3.020

X/LB	1.001
PHI	
110.000	-.0360
120.000	-.0060

MACH (1) = 2.498 BETA (5) = 6.200

X/LB	1.001
PHI	
110.000	-.0450
120.000	-.0430

MACH (2) = 3.503 BETA (1) = -6.750

X/LB	1.001
PHI	
110.000	-.0300
120.000	.0240

MACH (2) = 3.503 BETA (2) = -3.460

X/LB	1.001
PHI	
110.000	-.0280
120.000	-.0160

MACH (2) = 3.503 BETA (3) = -.160

X/LB	1.001
PHI	
110.000	-.0150
120.000	-.0270

AMES 87-707 OA12 CEA OMS POD OUTSIDE (RBQM15)

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.130

X/LB	1.001
PHI	
110.000	-.0400
120.000	-.0390

MACH (2) = 3.503 BETA (5) = 6.430

X/LB	1.001
PHI	
110.000	-.0430
120.000	-.0470

AMES 87-707 OA12 02A OMS POD OUTSIDE (RBQM16) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

X/LB	1.001
PHI	
110.000	.0720
120.000	.0090

MACH (1) = 2.498 BETA (2) = -3.320

X/LB	1.001
PHI	
110.000	-.1330
120.000	-.0750

MACH (1) = 2.498 BETA (3) = -.160

X/LB	1.001
PHI	
110.000	-.0990
120.000	-.1100

MACH (1) = 2.498 BETA (4) = 3.040

X/LB	1.001
PHI	
110.000	-.0580
120.000	-.1290

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	1.001
PHI	
110.000	-.0580
120.000	-.1290

MACH (2) = 3.503 BETA (1) = -6.720

X/LB	1.001
PHI	
110.000	-.0570
120.000	-.0090

MACH (2) = 3.503 BETA (2) = -3.440

X/LB	1.001
PHI	
110.000	-.0690
120.000	-.0990

MACH (2) = 3.503 BETA (3) = -.160

X/LB	1.001
PHI	
110.000	-.0[illegible]
120.000	-.0670

AMES 67-707 OA12 O2A OMS POD OUTSIDE (RBOM16)

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.150

X/LB	1.001
PHI	
110.000	-.0520
120.000	-.0560

MACH (2) = 3.503 BETA (5) = 6.470

X/LB	1.001
PHI	
110.000	-.0610
120.000	-.0660

AMES 87-707 OA12 O2A OMS POD OUTSIDE (RBQM17) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

BETA =	.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)OMS POD OUTSIDE

DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = 15.200

X/LB	1.001
PHI	
110.000	-.0570
120.000	-.0580

MACH (1) = 2.498 ALPHA (2) = 20.250

X/LB	1.001
PHI	
110.000	-.0970
120.000	-.1080

MACH (1) = 2.498 ALPHA (3) = 25.180

X/LB	1.001
PHI	
110.000	-.0820
120.000	-.0990

MACH (1) = 2.498 ALPHA (4) = 30.150

X/LB	1.001
PHI	
110.000	-.1190
120.000	-.1190

MACH (1) = 2.498 ALPHA (5) = 35.290

X/LB	1.001
PHI	
110.000	-.0850
120.000	-.1080

MACH (1) = 2.498 ALPHA (6) = 38.670

X/LB	1.001
PHI	
110.000	-.1250
120.000	-.1220

MACH (2) = 3.501 ALPHA (1) = 15.160

X/LB	1.001
PHI	
110.000	-.0420
120.000	-.0590

MACH (2) = 3.501 ALPHA (2) = 20.230

X/LB	1.001
PHI	
110.000	-.0660
120.000	-.0650

AMES 67-707 OA12 OBA OMS POD OUTSIDE (RBQM17)

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (3) = 25.240

X/LB	1.001
PHI	
110.000	-.0620
120.000	-.0620

MACH (2) = 3.501 ALPHA (4) = 30.110

X/LB	1.001
PHI	
110.000	-.0650
120.000	-.0640

MACH (2) = 3.501 ALPHA (5) = 35.250

X/LB	1.001
PHI	
110.000	-.0650
120.000	-.0680

MACH (2) = 3.501 ALPHA (6) = 38.630

X/LB	1.001
PHI	
110.000	-.0580
120.000	-.0590

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AMES 87-707 OA12 O2A OMS POD OUTSIDE (RBQM18) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	30.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

X/LB	1.001
PHI	
110.000	-.1050
120.000	-.1040

MACH (1) = 2.498 BETA (2) = -3.310

X/LB	1.001
PHI	
110.000	-.0850
120.000	-.0830

MACH (1) = 2.499 BETA (3) = -.130

X/LB	1.001
PHI	
110.000	-.0830
120.000	-.0840

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	1.001
PHI	
110.000	-.0930
120.000	-.1640

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	1.001
PHI	
110.000	-.0930
120.000	-.1190

MACH (2) = 3.901 BETA (1) = -6.700

X/LB	1.001
PHI	
110.000	-.0650
120.000	-.0660

MACH (2) = 3.901 BETA (2) = -3.420

X/LB	1.001
PHI	
110.000	-.0670
120.000	-.0600

MACH (2) = 3.901 BETA (3) = -.120

X/LB	1.001
PHI	
110.000	-.0680
120.000	-.0670

AMES 87-70' CA12 C2A OMS POD OUTSIDE (RB2M18)

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.170

X/LB	1.001
PHI	
110.000	-.0700
120.000	-.0720

MACH (2) = 3.501 BETA (5) = 6.470

X/LB	1.001
PHI	
110.000	-.0810
120.000	-.0810

AMES 87-707 OA12 02A OMS POD OUTSIDE (RBQM19) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

X/LB	1.001
PHI	
110.000	-.1040
120.000	-.1040

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	1.001
PHI	
110.000	-.0840
120.000	-.0860

MACH (1) = 2.498 BETA (3) = -.140

X/LB	1.001
PHI	
110.000	-.0810
120.000	-.0830

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	1.001
PHI	
110.000	-.1260
120.000	-.1290

MACH (1) = 2.498 BETA (5) = 6.250

X/LB	1.001
PHI	
110.000	-.0920
120.000	-.1450

MACH (2) = 3.502 BETA (1) = -6.700

X/LB	1.001
PHI	
110.000	-.0220
120.000	-.0220

MACH (2) = 3.502 BETA (2) = -3.420

X/LB	1.001
PHI	
110.000	-.0220
120.000	-.0230

MACH (2) = 3.502 BETA (3) = -.130

X/LB	1.001
PHI	
110.000	-.0290
120.000	-.0270

AMES 87-707 OA12 OEA OMS POD OUTSIDE (RBQM19)

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.170

X/LB	1.001
PHI	
110.000	-.0700
120.000	-.0670

MACH (2) = 3.502 BETA (5) = 6.470

X/LB	1.001
PHI	
110.000	-.0750
120.000	-.0680

AMES 87-707 OA12 OEA OMS POD OUTSIDE (RBQM20) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.6490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.6490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	30.000	RUDDER =	.000
ELEVON =	10.000	RUDFLR =	40.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

X/LB	1.001
PHI	
110.000	-.0900
120.000	-.0920

MACH (1) = 2.498 BETA (2) = -3.300

X/LB	1.001
PHI	
110.000	-.0900
120.000	-.0880

MACH (1) = 2.498 BETA (3) = -.130

X/LB	1.001
PHI	
110.000	-.0670
120.000	-.0990

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	1.001
PHI	
110.000	-.0730
120.000	-.0890

MACH (1) = 2.498 BETA (5) = 6.240

X/LB	1.001
PHI	
110.000	-.0750
120.000	-.1320

MACH (2) = 3.501 BETA (1) = -6.700

X/LB	1.001
PHI	
110.000	-.0050
120.000	-.0060

MACH (2) = 3.501 BETA (2) = -3.420

X/LB	1.001
PHI	
110.000	-.0110
120.000	-.0110

MACH (2) = 3.501 BETA (3) = -.130

X/LB	1.001
PHI	
110.000	-.0140
120.000	-.0410

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AMES 67-707 OA12 C02A OMS POD OUTSIDE (RB0M20)

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.170

X/LB	1.001
PHI	
110.000	-.0190
120.000	-.0200

MACH (2) = 3.501 BETA (5) = 6.470

X/LB	1.001
PHI	
110.000	-.0620
120.000	-.0620

AMES 87-707 OA12 02A OMS POD OUTSIDE (RBGM21) (16 MAY 73)

REFERENCE DATA

SREF	=	2.4210 SQ.FT.	XMRP	=	12.5000 INCHES
LREF	=	39.6490 INCHES	YMRP	=	.0000 INCHES
BREF	=	39.6490 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0300 SCALE			

PARAMETRIC DATA

ALPHA =	30.000	RUDDER =	.000
ELEVON =	-20.000	RUDFLR =	40.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

X/LB	1.001
PHI	
110.000	-.0830
120.000	-.0860

MACH (1) = 2.498 BETA (2) = -3.310

X/LB	1.001
PHI	
110.000	-.1040
120.000	-.1050

MACH (1) = 2.498 BETA (3) = -.130

X/LB	1.001
PHI	
110.000	-.1630
120.000	-.1630

MACH (1) = 2.498 BETA (4) = 3.060

X/LB	1.001
PHI	
110.000	-.0970
120.000	-.0950

MACH (1) = 2.498 BETA (5) = 6.250

X/LB	1.001
PHI	
110.000	-.1010
120.000	-.1060

MACH (2) = 3.503 BETA (1) = -6.700

X/LB	1.001
PHI	
110.000	-.0290
120.000	-.0540

MACH (2) = 3.503 BETA (2) = -3.410

X/LB	1.001
PHI	
110.000	-.0290
120.000	-.0310

MACH (2) = 3.503 BETA (3) = -.130

X/LB	1.001
PHI	
110.000	-.0290
120.000	-.0360

AMES 67-707 OA12 02A OMS POD OUTSIDE (RBGM21)

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.170

X/LB	1.001
PHI	
110.000	-.0350
120.000	-.0340

MACH (2) = 3.503 BETA (5) = 6.470

X/LB	1.001
PHI	
110.000	-.0760
120.000	-.0730

AMES 67-707 OA12 02A OMS POD OUTSIDE (RBQM22) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -9.630

X/LB	1.001
PHI	
110.000	-.0600
120.000	-.0570

MACH (1) = 2.498 BETA (2) = -5.610

X/LB	1.001
PHI	
110.000	-.1020
120.000	-.1010

MACH (1) = 2.498 BETA (3) = .430

X/LB	1.001
PHI	
110.000	-.0980
120.000	-.1350

MACH (1) = 2.498 BETA (4) = 6.450

X/LB	1.001
PHI	
110.000	-.0690
120.000	-.1650

MACH (1) = 2.498 BETA (5) = 10.460

X/LB	1.001
PHI	
110.000	-.0760
120.000	-.1710

MACH (2) = 3.502 BETA (1) = -9.610

X/LB	1.001
PHI	
110.000	-.0520
120.000	-.0370

MACH (2) = 3.502 BETA (2) = -5.600

X/LB	1.001
PHI	
110.000	-.0300
120.000	-.0310

MACH (2) = 3.502 BETA (3) = .420

X/LB	1.001
PHI	
110.000	-.0620
120.000	-.0630

AMES 87-707 OA12 O2A OMS POD OUTSIDE (RB0M22)

SECTION (1)OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 6.440

PHI	X/LB 1.001
110.000	-.0610
120.000	-.0600

MACH (2) = 3.502 BETA (5) = 10.440

PHI	X/LB 1.001
110.000	-.0480
120.000	-.0550

AMES 67-707 OA12 OEA OMS POD OUTSIDE (RBGM23) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	15.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)OMS POD OUTSIDE

DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -5.560

X/LB	1.001
PHI	
110.000	-.0790
120.000	-.0790

MACH (1) = 2.498 BETA (2) = .420

X/LB	1.001
PHI	
110.000	-.0580
120.000	-.1120

MACH (1) = 2.498 BETA (3) = 6.340

X/LB	1.001
PHI	
110.000	-.0680
120.000	-.1270

MACH (2) = 3.502 BETA (1) = -5.540

X/LB	1.001
PHI	
110.000	-.0530
120.000	-.0480

MACH (2) = 3.502 BETA (2) = .420

X/LB	1.001
PHI	
110.000	-.0420
120.000	-.0520

MACH (2) = 3.502 BETA (3) = 6.320

X/LB	1.001
PHI	
110.000	-.0320
120.000	-.0770

AMES 87-707 OA12 U2A LOWER WING (RBQL01) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.6490 INCHES YMRP = .0000 INCHES
BREF = 39.6490 INCHES ZMRP = .0000 INCHES
SCALE = .030 * SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = -.090

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0060	.0030	.2530	.8070	.7370	.7500	.7500
.050				.0280	.0230	.0460	.0450
.081			.0410				
.086		.0013					
.094	-.0220						
.150				.0260	.0550	.0620	.0660
.177			.0420				
.229	.0004						
.243		.0390					
.250				.0290	.0400	.0640	.0660
.352	.0180						
.405				.0370	.0680		.0780
.452			.0040				
.497	.0030						
.550				.0270	.0350		
.565			-.0020				
.600							.0320
.650						.0120	
.700	-.0130				-.0150		
.725				-.0380			
.750						-.0250	-.0180
.760			-.0410				
.775				-.0580	-.0450		
.808			-.0620				
.834	-.0410						
.850				-.0830	-.0720	-.0620	
.857			-.0130				
.865	-.0650						
.900	-.0710			-.1040			-.0640
.905			-.0990				
.950				-.1200	-.1040	-.0920	
.953			-.1170				
.965	-.0840						

MACH (1) = 2.498 ALPHA (2) = 4.960

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0240	-.0410	.2360	.8220	.7420	.7720	.7530
.050				.2190	.1850	.1880	.1900
.081			.1740				
.086		.0630					
.094	.0550						

AMES 67-707 OA12 OEA LOWER WING (RBOLO1)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (2) = 4.960

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.150				.1760	.2310	.2380	.2390
.177			.1660				
.229	.0390						
.246		.1110					
.250				.1570	.1860	.2270	.2370
.362	.0750						
.400				.1480	.2080		.2360
.402			.1000				
.497	.0610						
.550				.1260	.1510		
.565			.0850				
.600							.1650
.650						.1310	
.700	.0600				.0790		
.725				.0420			
.750						.0740	.0810
.760			.0330				
.775				.0140	.0370		
.808			.0080				
.834	.0220						
.850				-.0220	.0000	.0210	
.857			-.0270				
.865	-.0050						
.900	-.0140			-.0480			.0110
.905			-.0460				
.950				-.0680	-.0460	-.0250	
.953			-.0660				
.965	-.0340						

MACH (1) = 2.498 ALPHA (3) = 9.970

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.1230	-.1310	.0410	.7370	.7000	.7310	.6900
.050				.3790	.4060	.4230	.4590
.081			.2500				
.086		.0990					
.094	.1070						
.150				.3050	.3740	.3930	.4090
.177			.2700				
.229	.1170						
.246		.1620					
.250				.2730	.3140	.3680	.4050
.362	.1350						
.400				.2580	.3260		.3730
.402			.1920				
.497	.1170						

AMES 87-707 OA12 OEA LOWER WING (RBQLO1)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (3) = 9.970

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.2310	.2510		
.565			.1740				
.600							.2760
.650						.2300	
.700	.1320				.1710		
.725				.1260			
.750						.1570	.1700
.760			.1110				
.775				.0910	.1140		
.808			.0810				
.834	.0890						
.850				.0440	.0730	.0970	
.857			-.0470				
.865	.0560						
.900	.0460			.0100			.0790
.905			.0080				
.950				-.0130	.0070	.0350	
.953			-.0110				
.965	.0190						

MACH (1) = 2.498 ALPHA (4) = 14.890

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1630	-.1640	-.0550	.6480	.6520	.6730	.5960
.050				.5230	.5940	.6250	.6730
.081			.3280				
.086		.1540					
.094	.1760						
.150				.4430	.5320	.5590	.5810
.177			.3770				
.229	.1940						
.246		.2390					
.250				.3950	.4550	.5280	.5710
.362	.2200						
.400				.3820	.4760		.5290
.402			.3040				
.497	.1960						
.550				.3540	.3780		
.565			.2900				
.600							.4170
.650						.3480	
.700	.2300				.2780		
.725				.2310			
.750						.2680	.2800
.760			.2070				
.775				.1920	.2090		

AMES 67-707 OA12 O2A LOWER WING (RBQLO1)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (4) = 14.890

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.1770				
.834	.1870						
.850				.1300	.1670	.1970	
.857			-.0620				
.865	.1430						
.900	.1280			.0860			.1650
.905			.0380				
.950				.0570	.0860	.1180	
.953			.0810				
.965	.0960						

MACH (1) = 2.498 ALPHA (5) = 19.870

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1860	-.1910	-.0920	.5430	.5780	.5750	.4660
.050				.6670	.7560	.7960	.8410
.081			.4230				
.086		.2230					
.094	.2600						
.150				.5760	.7030	.7190	.7430
.177			.5050				
.229	.2890						
.246		.3370					
.250				.5300	.5990	.6850	.7390
.362	.3250						
.400				.5220	.6340		.6840
.402			.4300				
.497	.3030						
.550				.4930	.5120		
.565			.4200				
.600							.5490
.650						.4800	
.700	.3470				.3960		
.725				.3540			
.750						.3890	.3950
.760			.3240				
.775				.3070	.3160		
.808			.2920				
.834	.2970						
.850				.2330	.2710	.2980	
.857			-.0780				
.865	.2440						
.900	.2280			.1810			.2660
.905			.1840				
.950				.1480	.1720	.2040	
.953			.1510				

AMES 87-707 OA12 02A LOWER WING (R98L01)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (5) = 19.870

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.1860						

MACH (2) = 3.502 ALPHA (1) = -.020

Y/BW	.295	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0060	.0110	.2100	.8220	.7820	.8220	.8080
.050				.0650	.0700	.0760	.0950
.081			.0170				
.086		-.0110					
.094	-.0180						
.150				.0300	.0590	.0660	.0770
.177			.0210				
.229	-.0130						
.246		.0150					
.250				.0200	.0430	.0540	.0800
.362	.0030						
.400				.0270	.0500		.0690
.402			.0030				
.497	-.0030						
.550				.0250	.0190		
.565			-.0030				
.600							.0340
.650						.0110	
.700	-.0030				-.0120		
.725				-.0140			
.750						-.0170	.0080
.760			-.0270				
.775				-.0280	-.0290		
.809			-.0430				
.834	-.0280						
.850				-.0440	-.0480	-.0410	
.857			.0050				
.865	-.0420						
.900	-.0470			-.0570			-.0280
.905			-.0550				
.950				-.0660	-.0570	-.0580	
.953			-.0670				
.965	-.0550						

MACH (2) = 3.502 ALPHA (2) = 5.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0130	-.0080	.2280	.8620	.8240	.8490	.8100
.050				.1970	.1680	.1760	.1830
.081			.1300				
.086		.0480					
.094	.0410						

AMES 87-707 OA12 02A LOWER WING (RB0L01)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (2) = 5.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.1450	.1750	.1690	.1830
.177			.1240				
.229	.0450						
.246		.0900					
.250				.1260	.1550	.1640	.1820
.362	.0340						
.400				.1230	.1680		.1710
.402			.0740				
.497	.0440						
.550				.1100	.1060		
.565			.0650				
.600							.1270
.650						.0970	
.700	.0370				.0630		
.725				.0440			
.750						.0560	.0830
.760			.0240				
.775				.0200	.0320		
.808			.0060				
.834	.0130						
.850				-.0050	.0050	.0200	
.857			-.0160				
.865	-.0020						
.900	-.0100			-.0240			.0290
.905			-.0240				
.920				-.0590	-.0260	-.0110	
.953			-.0360				
.968	-.0230						

MACH (2) = 3.502 ALPHA (3) = 10.[illegible]

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.050	-.0670	-.0650	-.0490	.0790	.0490	.0670	.0980
.150				.3380	.3220	.3260	.3470
.181			.2160				
.186		.0970					
.194	.0940						
.150				.2360	.3120	.3360	.3440
.177			.2010				
.223	.1020						
.246		.1420					
.250				.2300	.2710	.3170	.3440
.362	.1180						
.400				.2280	.2840		.3270
.402			.1630				
.497	.1030						

AMES 87-707 OA12 02A LOWER WING (RBQL01)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (3) = 10.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.2030	.2300		
.565			.1460				
.600							.2560
.650						.2090	
.700	.1000				.1670		
.725				.1080			
.750						.1490	.1740
.760			.0970				
.775				.0760	.1150		
.808			.0700				
.834	.0700						
.850				.0400	.0770	.1000	
.857			-.0250				
.865	.0470						
.900	.0360			.0120			.0980
.905			.0110				
.950				-.0080	.0260	.0530	
.953			-.0080				
.965	.0190						

MACH (2) = 3.502 ALPHA (4) = 15.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0770	-.0760	.0470	.8790	.8700	.8820	.7750
.050				.5240	.5630	.5780	.6210
.081			.3130				
.086		.1630					
.094	.1710						
.150				.4130	.5070	.5330	.5460
.177			.3420				
.229	.1890						
.246		.2310					
.250				.3730	.4380	.4870	.5380
.362	.2100						
.400				.3620	.4500		.5080
.402			.2710				
.497	.1910						
.550				.3400	.3800		
.565			.2580				
.600							.3870
.650						.3340	
.700	.1940				.2840		
.725				.2190			
.750						.2590	.2720
.760			.1920				
.775				.1780	.2100		

AMES 87-707 OA12 OEA LOWER WING (RB0LO1)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (4) = 15.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.1580				
.834	.1530						
.850				.1280	.1590	.1950	
.857			-.0400				
.865	.1200						
.900	.1080			.0880			.1730
.905			.0860				
.950				.0650	.0900	.1310	
.953			.0650				
.965	.0630						

MACH (2) = 3.502 ALPHA (5) = 20.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0850	-.0850	.0220	.8440	.8670	.8690	.5780
.050				.6840	.8020	.8150	.7570
.081			.4200				
.086		.2440					
.094	.2610						
.150				.5710	.7040	.7400	.6720
.177			.4750				
.229	.2880						
.246		.3390					
.250				.5260	.6150	.6800	.662
.362	.3190						
.400				.5160	.6230		.6 0
.402			.4020				
.497	.2930						
.550				.4890	.5500		
.565			.3870				
.600							.5060
.650						.4400	
.700	.3030				.4160		
.725				.3400			
.750						.3540	.3660
.760			.3090				
.775				.2890	.3160		
.808			.2700				
.834	.2550						
.850				.2270	.2560	.2740	
.857			-.0340				
.865	.2110						
.900	.1970			.1790			.2500
.905			.1710				
.950				.1420	.1600	.1970	
.953			.1400				

AMES 87-707 OA12 OEA LOWER WING (RBQL01)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (P) = 3.902 ALPHA (5) = 20.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.1700						

AMES 87-707 OA12 OEA LOWER WING (RB6L02) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -3.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0270	.0260	.2940	.9130	.8450	.8490	.8550
.050				.0210	.0380	.0600	.0620
.081			.0210				
.086		-.0130					
.094	-.0340						
.150				.0140	.0620	.0750	.0780
.177			.0300				
.229	-.0050						
.246		.0430					
.250				.0250	.0420	.0700	.1000
.362	.0160						
.400				.0390	.0540		.0970
.402			.0020				
.497	.0010						
.550				.0290	.0330		
.565			-.0080				
.600							.0470
.650						.0120	
.700	-.0200				-.0160		
.725				-.0350			
.750						-.0270	-.0130
.760			-.0500				
.775				-.0590	-.0420		
.808			-.0700				
.834	-.0510						
.850				-.0850	-.0730	-.0640	
.857			-.0270				
.865	-.0750						
.900	-.0810			-.1060			-.0630
.905			-.1010				
.950				-.1200	-.1040	-.0920	
.953			-.1190				
.965	-.0930						

MACH (1) = 2.498 BETA (2) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0160	-.0080	.2090	.7280	.6620	.6760	.6690
.050				.0480	.0240	.0410	.0360
.081			.0630				
.086		.0050					
.094	-.0140						

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AMES 87-707 OA12 02A LOWER WING (RB0L02)

SECTION (1):LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0480	.0630	.0630	.0660
.177			.0610				
.229	.0070						
.246		.0460					
.250				.0430	.0530	.0720	.0770
.362	.0190						
.400				.0420	.0670		.0810
.402			.0170				
.497	.0120						
.550				.0340	.0480		
.565			.0090				
.600							.0400
.650						.0220	
.700	.0020				-.0070		
.725				-.0260			
.750						-.0160	-.0130
.760			-.0260				
.775				-.0480	-.0350		
.808			-.0470				
.834	-.0250						
.850				-.0750	-.0650	-.0530	
.857			-.0270				
.865	-.0460						
.900	-.0550			-.0970			-.0640
.905			-.0850				
.950				-.1130	-.0970	-.0870	
.953			-.0590				
.965	-.0720						

MACH (2) = 3.502 BETA (1) = -3.410

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0330	.0370	.2940	.9780	.9240	.9870	1.0040
.050				.0830	.0910	.1160	.1400
.081			.0110				
.096		-.0120					
.094	-.0210						
.150				.0380	.0830	.1040	.1170
.177			.0120				
.229	-.0140						
.246		.0130					
.250				.0210	.0640	.0920	.1160
.362	.0020						
.400				.0220	.0690		.1160
.402			-.0030				
.497	-.0090						

AMES 67-707 OA12 OEA LOWER WING (R84L02)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -3.410

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.0200	.0380		
.565			-.0060				
.600							.0690
.650						.0360	
.700	-.0190				.0000		
.725				-.0170			
.750						.0040	.0230
.760			-.0330				
.775				-.0340	-.0210		
.808			-.0460				
.834	-.0360						
.850				-.0490	-.0400	-.0230	
.857			.0010				
.865	-.0520						
.900	-.0570			-.0620			-.0170
.905			-.0620				
.950				-.0700	-.0590	-.0460	
.953			-.0750				
.965	-.0640						

MACH (2) = 3.502 BETA (2) = 3.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0170	-.0160	.1380	.6660	.6360	.6600	.6700
.050				.0470	.0460	.0560	.0680
.081			.0220				
.086		-.0080					
.094	-.0160						
.150				.0220	.0410	.0490	.0560
.177			.0230				
.229	-.0070						
.246		.0140					
.250				.0200	.0280	.0440	.0540
.362	.0000						
.400				.0200	.0380		.0530
.402			-.0010				
.497	-.0030						
.550				.0200	.0250		
.565			-.0030				
.600							.0240
.650						.0080	
.700	-.0080				-.0030		
.725				-.0200			
.750						-.0130	-.0080
.760			-.0260				
.775				-.0340	-.0250		

AMES 87-707 OA12 OBA LOWER WING (RBQL02)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = 3.190

Y/Bw	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0360				
.834	-.0250						
.850				-.0480	-.0430	-.0360	
.857			.0000				
.865	-.0370						
.900	-.0410			-.0800			-.0410
.905			-.0510				
.950				-.0680	-.0620	-.0540	
.953			-.0630				
.955	-.0500						

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A LOWER WING (RBQL03) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0330	-.0150	.3430	1.0630	.9740	1.0020	.9590
.050				.4420	.4450	.4600	.4940
.081			.3350				
.086		.1790					
.094	.1680						
.150				.3630	.4530	.4620	.4760
.177			.3280				
.229	.1690						
.246		.2330					
.250				.3230	.3770	.4360	.4740
.362	.1800						
.400				.3060	.3840		.4370
.402			.2290				
.497	.1520						
.550				.2770	.2950		
.565			.2000				
.600							.3300
.650						.2800	
.700	.1390				.2010		
.725				.1520			
.750						.2040	.2110
.760			.1200				
.775				.1120	.1430		
.808			.0860				
.834	.0870						
.850				.0570	.1020	.1290	
.857			-.0640				
.865	.0480						
.900	.0370			.0190			.1110
.905			.0140				
.950				-.0040	.0310	.0620	
.953			-.0120				
.965	.0140						

MACH (1) = 2.498 BETA (2) = -3.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0860	-.0870	.1970	.8970	.8420	.8660	.8200
.050				.4080	.4210	.4430	.4800
.081			.2950				
.086		.1400					
.094	.1380						

AMES 87-707 OA12 02A LOWER WING (RB4L03)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.3320	.4100	.4260	.4420
.177			.3080				
.229	.1460						
.246		.1960					
.250				.2940	.3390	.3980	.4330
.362	.1590						
.400				.2750	.3490		.3990
.402			.2080				
.497	.1370						
.550				.2480	.2810		
.565			.1890				
.600							.2950
.650						.2520	
.700	.1360				.1820		
.725				.1360			
.750						.1780	.1840
.760			.1140				
.775				.0980	.1250		
.808			.0810				
.834	.0890						
.850				.0460	.0840	.1070	
.857			-.0600				
.865	.0510						
.900	.0390			.0100			.0910
.905			.0080				
.950				-.0150	.0160	.0450	
.953			-.0170				
.965	.0180						

MACH (1) = 2.498 BETA (3) = 3.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1360	-.1450	-.0710	.5950	.5940	.6220	.5750
.050				.3570	.3970	.4100	.4430
.081			.2100				
.086		.0580					
.094	.0800						
.150				.2880	.3580	.3690	.3820
.177			.2410				
.229	.0900						
.246		.1310					
.250				.2520	.2980	.3460	.3780
.362	.1090						
.400				.2440	.3170		.3490
.402			.1800				
.497	.1030						

AMES 87-707 OA12 OCA LOWER WING (RBQL03)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = 3.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.2240	.2360		
.565			.1730				
.600							.2580
.650						.2090	
.700	.1300				.1610		
.725				.1270			
.750						.1460	.1570
.760			.1110				
.775				.0950	.1040		
.808			.0840				
.834	.0950						
.850				.0470	.0660	.0890	
.857			-.0570				
.865	.0630						
.900	.0530			.0160			.0670
.905			.0210				
.950				-.0110	.0030	.0260	
.953			-.0010				
.965	.0240						

MACH (1) = 2.498 BETA (4) = 6.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1410	-.1570	-.1420	.4480	.4750	.5020	.4590
.050				.3410	.3800	.3900	.4240
.081			.1710				
.086		.0430					
.094	.0600						
.150				.2660	.3340	.3430	.3570
.177			.2220				
.229	.0800						
.246		.1140					
.250				.2370	.2770	.3190	.3510
.362	.1050						
.400				.2310	.2980		.3230
.402			.1740				
.497	.0980						
.550				.2120	.2210		
.565			.1720				
.600							.2430
.650						.1960	
.700	.1250				.1490		
.725				.1270			
.750						.1330	.1480
.760			.1130				
.775				.0950	.0940		

AMES 67-70? ORIZ 72A LOWER WING (RB0L03)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.496 BETA (4) = 6.200

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.808			.0890				
.834	.0970						
.850				.0490	.0580	.0750	
.857			-.0680				
.865	.0670						
.900	.0560			.0190			.0620
.935			.0240				
.950				-.0050	-.0060	.0180	
.953			.0060				
.965	.0280						

MACH (2) = 3.502 BETA (1) = -6.740

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0060	.0300	.4080	1.2550	1.1750	1.0840	.9300
.050				.4180	.3780	.3450	.3590
.081			.3090				
.086		.1670					
.094	.1500						
.150				.3310	.3990	.3710	.3600
.177			.3100				
.229	.1490						
.246		.2110					
.250				.2990	.3490	.3660	.3700
.352	.1590						
.400				.2840	.3620		.3680
.402			.2020				
.497	.1310						
.500				.2600	.2770		
.565			.1780				
.600							.3000
.650						.2590	
.700	.1240				.2060		
.725				.1510			
.750						.1920	.2110
.760			.1160				
.775				.1150	.1500		
.808			.0870				
.834	.0820						
.850				.0720	.1060	.1320	
.857			-.0350				
.865	.0500						
.900	.0370			.0420			.1310
.905			.0310				
.950				.0200	.0530	.0810	
.953			.0110				

AMES 87-707 OA12 C2A LOWER WING (RBQL03)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.740

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0220						

MACH (2) = 3.502 BETA (2) = -3.460

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0430	-.0230	.2550	1.0560	1.0030	1.0320	.9680
.050				.3730	.3380	.3550	.3770
.081			.2590				
.086		.1350					
.094	.1220						
.150				.2880	.3460	.3620	.3590
.177			.2540				
.229	.1300						
.246		.1730					
.250				.2590	.3000	.3470	.3590
.362	.1400						
.400				.2440	.3180		.3480
.402			.1850				
.497	.1200						
.550				.2200	.2480		
.565			.1640				
.600							.2790
.650						.2380	
.700	.1100				.1810		
.725				.1210			
.750						.1750	.1930
.760			.1090				
.775				.0900	.1300		
.808			.0810				
.834	.0770						
.850				.0520	.0910	.1170	
.857			-.0470				
.865	.0480						
.900	.0400			.0220			.1130
.905			.0130				
.950				.0000	.0390	.0650	
.953			-.0050				
.965	.0220						

MACH (2) = 3.502 BETA (3) = 3.140

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0760	-.0860	-.0020	.6810	.6810	.7040	.6630
.050				.3090	.3130	.3100	.3300
.081			.1710				
.086		.0670					
.094	.0720						

AMES 67-707 OA12 02A LOWER WING (RB&L03)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = 3.140

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.150				.2340	.3020	.3070	.3190
.177			.1880				
.229	.0830						
.246		.1140					
.250				.2080	.2480	.2860	.3170
.362	.1010						
.400				.2010	.2600		.2980
.402			.1410				
.497	.0900						
.550				.1850	.2110		
.565			.1330				
.600							.2330
.650						.1830	
.700	.0990				.1490		
.725				.1060			
.750						.1300	.1500
.760			.0900				
.775				.0780	.0980		
.808			.0690				
.834	.0760						
.850				.0460	.0590	.0830	
.857			-.0370				
.865	.0520						
.900	.0440			.0220			.0820
.905			.0230				
.950				.0040	.0140	.0390	
.953			.0090				
.965	.0280						

MACH (2) = 3.502 BETA (4) = 6.440

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0740	-.0890	-.0610	.5020	.5440	.5700	.5360
.050				.2710	.2910	.2970	.3190
.081			.1270				
.086		.0430					
.094	.0490						
.150				.2020	.2640	.2780	.2930
.177			.1600				
.229	.0660						
.246		.0880					
.250				.1780	.2210	.2590	.2860
.362	.0820						
.400				.1730	.2320		.2700
.402			.1290				
.497	.0760						

AMES 87-707 OA12 O2A LOWER WING (RBQL03)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 6.440

Y/BW	.299	.384	.427	.534	.673	.780	.887
X/CW							
.550				.1630	.1960		
.565			.1260				
.600							.2110
.650						.1670	
.700	.0910				.1370		
.725				.1040			
.750						.1170	.1370
.760			.0880				
.775				.0780	.0840		
.808			.0680				
.834	.0740						
.850				.0470	.0520	.0780	
.857			-.0440				
.865	.0540						
.900	.0450			.0250			.0710
.905			.0290				
.950				.0060	.0130	.0360	
.953			.0170				
.965	.0260						

AMES 87-707 OA12 O2A LOWER WING (RBQL04) (16 MAY 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1410	-.1350	.0690	.8920	.8770	.8750	.7440
.050				.8000	.8960	.9380	.9940
.081			.5530				
.086		.3280					
.094	.3500						
.150				.6880	.8140	.8360	.8690
.177			.6120				
.229	.3700						
.246		.4330					
.250				.6340	.7190	.8020	.8570
.362	.3920						
.400				.6090	.7390		.7880
.402			.4980				
.497	.3660						
.550				.5680	.5830		
.565			.4770				
.600							.6190
.650						.5500	
.700	.3810				.4490		
.725				.4030			
.750						.4440	.4330
.760			.3580				
.775				.3410	.3660		
.808			.3210				
.834	.3160						
.850				.2570	.3140	.3420	
.857			-.0700				
.865	.2510						
.900	.2370			.2000			.2860
.905			.1920				
.950				.1670	.2070	.2360	
.953			.1540				
.965	.1960						

MACH (1) = 2.498 BETA (2) = -3.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1720	-.1680	-.0200	.7150	.7260	.7260	.5970
.050				.7300	.8210	.8660	.9130
.081			.4930				
.086		.2720					
.094	.3040						

AMES 67-707 CA12 C2A LOWER WING (RBQL04)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.6230	.7430	.7760	.8040
.177			.5600				
.229	.3290						
.2[illegible]3		.3500					
.250				.5710	.6540	.7390	.7940
.362	.3580						
.400				.5590	.6800		.7300
.402			.1540				
.497	.3300						
500				.5250	.5430		
.535			.4470				
.600							.5790
.650						.5080	
.700	.3670				.4160		
.725				.3690			
.750						.4130	.4180
.760			.3440				
.775				.3140	.3330		
.808			.3100				
.834	.3100						
.850				.2360	.2870	.3140	
.857			-.0820				
.865	.2520						
.900	.2350			.1810			.2790
.905			.1830				
.950				.1510	.1850	.2170	
.953			.1450				
.955	.1910						

MACH (1) = 2.498 BETA (3) = 3.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2030	-.2120	-.1460	.3860	.4480	.4380	.3380
.050				.6020	.7070	.7410	.7790
.081			.3540				
.086		.1730					
.094	.2200						
.150				.5220	.6640	.6700	.6970
.177			.4550				
.229	.2490						
.246		.2930					
.250				.4830	.5590	.6360	.6920
.362	.2870						
.400				.4900	.5950		.6400
.402			.4050				
.497	.2780						

AMES 87-707 OA12 02A LOWER WING (RBQL04)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = 3.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.4660	.4880		
.565			.4030				
.600							.5180
.650						.4510	
.700	.3270				.3800		
.725				.3390			
.750						.3670	.3750
.760			.3180				
.775				.2960	.3040		
.808			.2860				
.834	.2870						
.850				.2230	.2580	.2810	
.857			-.0840				
.865	.2390						
.900	.2240			.1730			.2510
.905			.1800				
.950				.1390	.1640	.1960	
.953			.1490				
.965	.1850						

MACH (1) = 2.498 BETA (4) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1990	-.2100	-.1680	.2610	.3270	.3120	.2260
.050				.5390	.6470	.6660	.6990
.081			.3090				
.086		.1510					
.094	.1810						
.150				.4680	.6020	.6100	.6390
.177			.4130				
.229	.2230						
.246		.2680					
.250				.4490	.5140	.5850	.6400
.362	.2710						
.400				.4640	.5550		.5940
.402			.3760				
.497	.2630						
.550				.4440	.4500		
.565			.3810				
.600							.4800
.650						.4200	
.700	.3130				.3570		
.725				.3230			
.750						.3390	.3440
.760			.3020				
.775				.2840	.2860		

AMES 87-707 OA12 O2A LOWER WING (RBQL04)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.2770				
.834	.2730						
.850				.2140	.2360	.2550	
.857			-.0850				
.865	.2270						
.900	.2140			.1660			.2290
.905			.1780				
.950				.1320	.1520	.1790	
.953			.1480				
.965	.1770						

MACH (2) = 3.502 BETA (1) = -6.710

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0820	-.0490	.2020	1.2520	1.0470	.8490	.7340
.050				.8330	.7920	.8170	.8500
.081			.5650				
.086		.3420					
.094	.3470						
.150				.6980	.7160	.7310	.7370
.177			.6080				
.229	.3680						
.246		.4340					
.250				.6410	.6500	.6910	.7220
.362	.3940						
.400				.6200	.6540		.6750
.402			.4860				
.497	.3510						
.550				.5530	.5690		
.565			.4540				
.600							.5440
.650						.4670	
.700	.3510				.4200		
.725				.3660			
.750						.3770	.4260
.760			.3490				
.775				.3070	.3100		
.808			.3000				
.834	.2780						
.850				.2390	.2500	.2960	
.857			-.0250				
.865	.2250						
.900	.2070			.1870			.3030
.905			.1860				
.950				.1510	.1520	.2100	
.953			.1470				

AMES 67-707 OA12 OEA LOWER WING (RB9L04)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.710

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.1800						

MACH (2) = 3.502 BETA (2) = -3.430

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0730	-.0660	.1030	1.0550	1.0290	.8010	.6420
.050				.7760	.6720	.7780	.8430
.081			.4980				
.086		.2890					
.094	.3050						
.150				.6380	.7790	.7150	.7340
.177			.5380				
.229	.3280						
.246		.3900					
.250				.5880	.6810	.6650	.7180
.362	.3540						
.400				.5720	.6420		.6710
.402			.4440				
.497	.3220						
.550				.5350	.5570		
.565			.4210				
.600							.5440
.650						.4700	
.700	.3300				.4230		
.725				.3730			
.750						.3790	.3940
.760			.3310				
.775				.3130	.3200		
.808			.2890				
.834	.2700						
.850				.2410	.2640	.2980	
.857			-.0310				
.865	.2220						
.900	.2030			.1880			.2740
.905			.1870				
.950				.1540	.1710	.2150	
.953			.1500				
.965	.1750						

MACH (2) = 3.502 BETA (3) = 3.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0950	-.1020	-.0400	.6590	.6770	.6860	.5950
.050				.5950	.7090	.7320	.7920
.081			.3530				
.086		.2020					
.094	.2230						

AMES 87-707 OA12 02A LOWER WING (RBQL04)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = 3.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.4960	.6330	.6630	.6990
.177			.4200				
.229	.2520						
.246		.2970					
.250				.4570	.5450	.6130	.6770
.362	.2890						
.400				.4560	.5630		.6420
.402			.3600				
.497	.2670						
.550				.4410	.4970		
.565			.3510				
.600							.5250
.650						.4420	
.700	.2870				.3860		
.725				.3130			
.750						.3580	.3710
.760			.2850				
.775				.2700	.2910		
.808			.2520				
.834	.2490						
.850				.2080	.2360	.2800	
.857			-.0390				
.865	.2080						
.900	.1910			.1660			.2430
.905			.1650				
.950				.1350	.1550	.1980	
.953			.1360				
.965	.1570						

MACH (2) = 3.502 BETA (4) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0920	-.1010	-.0670	.4900	.5230	.5300	.4530
.050				.5130	.6160	.6350	.6900
.081			.2930				
.086		.1630					
.094	.1810						
.150				.4260	.5500	.5780	.6190
.177			.3660				
.229	.2140						
.246		.2540					
.250				.4000	.4710	.5340	.5950
.362	.2500						
.400				.4060	.4970		.5660
.402			.3270				
.497	.2430						

DATE 10 SEP 75 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 OBA LOWE.. WING (RBQL04)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 6.470

Y/BW	.209	.364	.427	.574	.675	.780	.887
X/CW							
.550				.3570	.4300		
.565			.3230				.4640
.600						.3850	
.650					.3420		
.700	.2620			.2650			
.725						.3070	.3450
.750							
.760			.2640				
775				.2490	.2530		
.018			.2350				
834	.2360						
.850				.1940	.2020	.2330	
.857			.1480				
.855	.1980						
.900	.1810			.1350			.2350
.905			.1370				
.910				.1250	.1330	.1610	
.912			.1310				
.965	.1470						

AMES 87-707 OA12 02A LOWER WING (RB0L05) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0500 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0620	.0570	.3430	1.0280	.9570	.9670	.9650
.050				.0380	.0560	.0870	.0960
.081			-.0020				
.086		-.0260					
.094	-.0340						
.150				.0140	.0890	.1060	.1110
.177			.0150				
.229	-.0200						
.246		.0300					
.250				.0120	.0610	.1010	.1280
.362	.0070						
.400				.0320	.0700		.1250
.402			.0050				
.497	-.0080						
.550				.0260	.0330		
.565			-.0100				
.600							.0740
.650						.0260	
.700	-.0310				-.0190		
.725				-.0340			
.750						-.0190	.0070
.760			-.0530				
.775				-.0570	-.0410		
.808			-.0730				
.834	-.0610						
.850				-.0840	-.0710	-.0580	
.857			-.0230				
.865	-.0810						
.900	-.0900			-.1050			-.0490
.905			-.1*00				
.950				-.1200	-.1000	-.0900	
.953			-.1230				
.965	-.1000						

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0250	.0270	.2920	.9060	.8390	.8490	.8400
.050				.0250	.0360	.0630	.0680
.081			.0190				
.086		-.0140					
.094	-.0340						

DATE 10 SEP 73 TABULATED PRESSURE DATA - GA12C

AMES 87-707 GA12 02A LOWER WING (RB0L05)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0120	.0680	.0800	.0880
.177			.0300				
.229	-.0050						
.246		.0380					
.250				.0240	.0480	.0760	.0990
.362	.0120						
.400				.0340	.0610		.0940
.402			.0030				
.497	-.0020						
.550				.0310	.0340		
.565			-.0080				
.600							.0460
.650						.0120	
.700	-.0200				-.0140		
.725				-.0340			
.750						-.0240	-.0130
.760			-.0480				
.775				-.0560	-.0410		
.808			-.0670				
.834	-.0510						
.850				-.0850	-.0690	-.0600	
.857			-.0250				
.865	-.0710						
.900	-.0810			-.1040			-.0830
.905			-.1000				
.950				-.1170	-.1010	-.0890	
.953			-.1170				
.965	-.0930						

MACH (1) = 2.498 BETA (3) = -.100

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0020	.0090	.2600	.8110	.7370	.7510	.7370
.050				.0250	.0190	.0520	.0490
.081			.0430				
.086		.0030					
.094	-.0160						
.150				.0230	.0500	.0680	.0740
.177			.0440				
.229	.0040						
.246		.0410					
.250				.0250	.0380	.0670	.0870
.362	.0190						
.400				.0310	.0380		.0820
.402			.0090				
.497	.0050						

AMES 67-707 OA12 C2A LOWER WING (RBGL05)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.100

Y/BW / X/CW	.299	.384	.427	.534	.673	.780	.887
.550				.0220	.0410		
.565			.0000				
.600							.0380
.650						.0170	
.700	-.0100				-.0110		
.725				-.0400			
.750						-.0220	-.0140
.760			-.0400				
.775				-.0610	-.0390		
.808			-.0590				
.834	-.0400						
.850				-.0860	-.0700	-.0550	
.857			-.0170				
.865	-.0630						
.900	-.0690			-.1120			-.0610
.905			-.1040				
.950				-.1250	-.1000	-.0870	
.953			-.1190				
.965	-.0810						

MACH (1) = 2.498 BETA (4) = 5.080

Y/BW / X/CW	.299	.384	.427	.534	.673	.780	.887
.000	-.0110	-.0050	.2110	.7220	.6630	.6740	.6500
.030				.0510	.0270	.0430	.0400
.081			.0600				
.086		.0030					
.094	-.0090						
.130				.0490	.0710	.0620	.0700
.177			.0620				
.229	.0060						
.246		.0420					
.250				.0460	.0580	.0720	.0200
.362	.0160						
.400				.0470	.0760		.0780
.402			.0200				
.497	.0090						
.550				.0370	.0470		
.565			.0130				
.600							.0420
.650						.0230	
.700	.0090				-.0060		
.725				-.0240			
.750						-.0170	-.0140
.760			-.0200				
.775				-.0440	-.0360		

AMES 87-707 CA12 C2A LOWER WING (RBQL03)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

Y/BW / X/CW	.299	.364	.427	.534	.673	.760	.887
.808			-.0450				
.834	-.0250						
.850				-.0720	-.0640	-.0530	
.857			-.0180				
.865	-.0460						
.900	-.0520			-.0940			-.0630
.905			-.0810				
.950				-.1090	-.0960	-.0860	
.953			-.0970				
.965	-.0700						

MACH (1) = 2.498 BETA (5) = 6.290

Y/BW / X/CW	.299	.364	.427	.534	.673	.760	.887
.000	-.0300	-.0340	.1430	.6350	.5810	.5980	.5820
.050				.0810	.0360	.0450	.0390
.081			.0770				
.086		.0040					
.094	-.0020						
.150				.0650	.0860	.0730	.0760
.177			.0740				
.229	.0100						
.246		.0450					
.250				.0520	.0680	.0830	.0900
.362	.0160						
.400				.0530	.0800		.0940
.402			.0300				
.497	.0120						
.550				.0430	.0510		
.565			.0230				
.600							.0480
.650						.0280	
.700	.0160				-.0020		
.725				-.0150			
.750						-.0130	-.0020
.760			-.0140				
.775				-.0330	-.0330		
.808			-.0330				
.834	-.0150						
.850				-.0620	-.0620	-.0490	
.857			-.0370				
.865	-.0350						
.900	-.0420			-.0830			-.0600
.905			-.0700				
.950				-.0980	-.0960	-.0830	
.953			-.0840				

AMES 87-707 OA12 02A LOWER WING (RB9L05)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.290	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.965	-.0610						
MACH (2) = 3.501 BETA (1) = -6.670	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	.0720	.0790	.3800	1.1810	1.1080	1.1700	1.1750
	.050				.1130	.1220	.1530	.1790
	.081			.0330				
	.086		.0030					
	.094	-.0060						
	.150				.0600	.1190	.1430	.1530
	.177			.0270				
	.229	-.0160						
	.246		.0240					
	.250				.0410	.0890	.1280	.1510
	.362	-.0050						
	.400				.0370	.1010		.1440
	.402			.0040				
	.497	-.0160						
	.550				.0260	.0670		
	.565			-.0000				
	.60[illegible]							.0980
	.650						.0660	
	.700	-.0220				.0220		
	.725				-.0210			
	.750						.0300	.0460
	.760			-.0360				
	.775				-.0370	-.0030		
	.808			-.0490				
	.834	-.0420						
	.850				-.0530	-.0270	-.0040	
	.857			-.0150				
	.865	-.0570						
	.90[illegible]	-.0[illegible]0			-.0660			.0010
	.905			-.0720				
	.950				-.0730	-.0490	-.0310	
	.9[illegible]			-.0830				
	.965	-.0690						
MACH (2) = 3.501 BETA (2) = -3.420	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	.0380	.0410	.2910	.9380	.9350	1.0010	.9960
	.050				.0860	.0930	.1230	.1440
	.081			.0170				
	.086		-.0080					
	.094	-.0160						

AMES 87-707 OA12 C2A LOWER WING (RBQL05)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0390	.0890	.1080	.1270
.177			.0160				
.229	-.0120						
.246		.0180					
.250				.0220	.0660	.0970	.1270
.362	.0030						
.400				.0240	.0740		.1250
.402			.0010				
.497	-.0040						
.550				.0210	.0450		
.565			-.0020				
.600							.0740
.650						.0410	
.700	-.0150				.0060		
.725				-.0190			
.750						.0090	.0280
.760			-.0290				
.775				-.0330	-.0150		
.808			-.0430				
.834	-.0340						
.850				-.0490	-.0350	-.0180	
.857			-.0080				
.865	-.0490						
.900	-.0360			-.0600			-.0120
.905			-.0640				
.950				-.0680	-.0540	-.0410	
.953			-.0730				
.965	-.0630						

MACH (2) = 3.501 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0110	.0120	.2100	.8200	.7800	.8220	.8110
.050				.0660	.0690	.0810	.0970
.081			.0190				
.086		-.0080					
.094	-.0150						
.150				.0300	.0670	.0680	.0930
.177			.0220				
.229	-.0050						
.246		.0170					
.250				.0210	.0480	.0590	.0810
.362	.0040						
.400				.0250	.0520		.0740
.402			.0040				
.497	-.0020						

AMES 67-707 CA12 C2A LOWER WING (RBGL05)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.0270	.0260		
.565			-.0050				
.600							.0420
.650						.0140	
.700	-.0100				-.0070		
.725				-.0140			
.750						-.0100	.0090
.760			-.0280				
.775				-.0290	-.0250		
.808			-.0410				
.834	-.0280						
.850				-.0450	-.0410	-.0350	
.857			.0040				
.865	-.0400						
.900	-.0470			-.0570			-.0280
.905			-.0530				
.950				-.0670	-.0610	-.0550	
.953			-.0650				
.965	-.0550						

MACH (2) = 3.501 BETA (4) = 3.180

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0070	-.0050	.1500	.6790	.6500	.6750	.6700
.050				.0510	.0500	.0590	.0680
.081			.0270				
.086		-.0070					
.094	-.0130						
.150				.0250	.0480	.0510	.0590
.177			.0270				
.229	-.0050						
.246		.0170					
.250				.0220	.0310	.0440	.0500
.362	.0030						
.400				.0250	.0400		.0540
.402			.0040				
.497	-.0010						
.550				.0250	.0270		
.565			-.0030				
.600							.0270
.650						.0110	
.700	-.0040				-.0050		
.725				-.0170			
.750						-.0130	-.0040
.760			-.0230				
.775				-.0310	-.0220		

AMES 87-707 OA12 O2A LOWER WING (RBQL09)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.180

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0360				
.834	-.0200						
.850				-.0470	-.0380	-.0330	
.857			-.0050				
.865	-.0330						
.900	-.0370			-.0590			-.0390
.905			-.0470				
.950				-.0680	-.0570	-.0540	
.953			-.0600				
.965	-.0480						

MACH (2) = 3.501 BETA (5) = 6.530

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0250	-.0270	.0770	.5190	.5260	.5560	.5410
.050				.0460	.0370	.0440	.0440
.081			.0280				
.086		-.0120					
.094	-.0150						
.150				.0260	.0410	.0390	.0420
.177			.0250				
.229	-.0100						
.246		.0080					
.255				.0200	.0270	.0350	.0440
.362	-.0040						
.400				.0240	.0390		.0400
.402			.0020				
.497	-.0070						
.550				.0190	.0250		
.565			-.0010				
.600							.0180
.650						.0080	
.700	-.0060				-.0060		
.725				-.0160			
.750						-.0150	-.0060
.760			-.0200				
.775				-.0270	-.0250		
.808			-.0290				
.834	-.0170						
.850				-.0420	-.0400	-.0370	
.857			-.0220				
.865	-.0300						
.900	-.0370			-.0540			-.0360
.905			-.0430				
.950				-.0620	-.0630	-.0560	
.953			-.0510				



AMES 87-707 OA12 O2A LOWER WING (RBQL05)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.530

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0450						

AMES 87-707 OA12 02A LOWER WING (RB0L06) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LOWER WING DEPENDENT VARIABLE CF

MACH (1) = 2.498 BETA (1) = -6.520

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0320	-.0120	.3450	1.0560	.9620	.9950	.9430
.050				.4270	.4270	.4510	.4890
.081			.3300				
.086		.1740					
.094	.1650						
.150				.3560	.4480	.4580	.4830
.177			.3200				
.229	.1690						
.246		.2310					
.250				.3160	.3710	.4320	.4710
.362	.1740						
.400				.2920	.3930		.4330
.402			.2210				
.497	.1470						
.550				.2600	.2820		
.565			.1950				
.600							.3300
.650						.2750	
.700	.1340				.1940		
.725				.1440			
.750						.1970	.2060
.765			.1140				
.775				.1030	.1390		
.858			.0840				
.834	.0830						
.850				.0500	.0970	.1240	
.907			-.0660				
.855	.0420						
.900	.0300			.0110			.1080
.909			.0030				
.950				-.0150	.0290	.0610	
.953			-.0180				
.960	.0110						

MACH (1) = 2.498 BETA (2) = -3.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0750	-.0750	.0520	.0990	.8360	.8730	.8150
.050				.4010	.4160	.4450	.4770
.081			.2980				
.086		.1410					
.094	.1350						

AMES 87-707 GA12 02A LOWER WING (RB0L06)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.3280	.4140	.4260	.4490
.177			.3100				
.229	.1450						
.246		.1940					
.250				.2910	.3410	.3920	.4350
.362	.1570						
.400				.2750	.3520		.4040
.402			.2100				
.497	.1330						
.550				.2440	.2780		
.565			.1880				
.600							.3000
.650						.2530	
.700	.1360				.1830		
.725				.1340			
.750						.1830	.1360
.760			.1140				
.775				.0960	.1270		
.808			.0830				
.834	.0910						
.850				.0460	.0900	.1120	
.857			-.0440				
.865	.0540						
.900	.0420			.0070			.0890
.905			.0060				
.950				-.0160	.0220	.0510	
.953			-.0160				
.965	.0170						

MACH (1) = 2.498 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1130	-.1220	.0560	.7450	.7090	.7390	.6940
.050				.3870	.4080	.4280	.4650
.081			.2520				
.086		.1030					
.094	.1120						
.150				.3140	.3980	.3970	.4200
.177			.2710				
.229	.1200						
.246		.1630					
.250				.2790	.3200	.3720	.4100
.362	.1360						
.400				.2630	.3420		.3770
.402			.1940				
.497	.1170						

AMES 67-707 OA12 02A LOWER WING (RBQL06)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.2360	.2530		
.565			.1790				
.600							.2840
.650						.2330	
.700	.1330				.1760		
.725				.1320			
.750						.1640	.1760
.760			.1120				
.775				.0980	.1170		
.808			.0840				
.834	.0950						
.850				.0500	.0790	.1020	
.857			-.0410				
.865	.0590						
.900	.0490			.0170			.0870
.905			.0170				
.950				-.0060	.0130	.0420	
.953			-.0050				
.965	.0220						

MACH (1) = 2.498 BETA (4) = 3.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1280	-.1360	-.0670	.6020	.5980	.6260	.5760
.050				.3490	.3910	.4140	.4510
.081			.2090				
.086		.0620					
.094	.0850						
.150				.2800	.3640	.3760	.3970
.177			.2410				
.229	.0930						
.246		.1290					
.250				.2460	.2910	.3540	.3870
.362	.1130						
.400				.2380	.3260		.3580
.402			.1820				
.497	.1040						
.550				.2170	.2400		
.565			.1720				
.600							.2670
.650						.2150	
.700	.1330				.1660		
.725				.1200			
.750						.1530	.1610
.760			.1120				
.775				.0860	.1090		

AMES 87-707 OA12 02A LOWER WING (RBQL06)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.0860				
.834	.0990						
.850				.0400	.0730	.0950	
.857			-.0560				
.865	.0650						
.900	.0530			.0040			.0690
.905			.0130				
.950				-.0200	.0090	.0330	
.953			-.0070				
.965	.0280						

MACH (1) = 2.498 BETA (5) = 6.210

Y/BW	.299	.364	.427	.534	.573	.780	.897
X/CW							
.000	-.1370	-.1540	-.1340	.4520	.4780	.5030	.4590
.050				.3370	.3780	.4010	.4370
.081			.1700				
.086		.0440					
.094	.0600						
.150				.2680	.3430	.3530	.3760
.177			.2220				
.229	.0830						
.246		.1130					
.250				.2330	.2720	.3300	.3590
.362	.1050						
.400				.2230	.3130		.3280
.402			.1750				
.497	.0960						
.550				.2040	.2270		
.565			.1740				
.600							.2560
.650						.2000	
.700	.1290				.1550		
.725				.1190			
.750						.1390	.1500
.760			.1150				
.775				.0890	.0990		
.802			.0890				
.834	.0980						
.850				.0460	.0660	.0840	
.857			-.0690				
.865	.0670						
.900	.0570			.0140			.0660
.905			.0200				
.950				-.0100	.0050	.0250	
.953			-.0020				

AMES 87-707 OA12 02A LOWER WING (RBQL08)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.210

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0290						

MACH (2) = 3.501 BETA (1) = -6.750

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0010	.0360	.4200	1.2700	1.1910	1.0380	.9340
.050				.4200	.3780	.3530	.3590
.081			.3150				
.086		.1720					
.094	.1560						
.150				.3320	.4160	.3780	.3670
.177			3140				
.229	.1570						
.246		.2160					
.250				.3020	.3510	.3700	.3710
.362	.1640						
.400				.2840	.3760		.3730
.402			.2080				
.497	.1360						
.550				.2580	.2840		
.565			.1820				
.600							.3050
.650						.2600	
.700	.1270				.2070		
.725				.1500			
.750						.1960	.2200
.760			.1210				
.775				.1140	.1530		
.808			.0890				
.834	.0850						
.850				.0700	.1090	.1380	
.857			-.0300				
.865	.0520						
.900	.0390			.0400			.1360
.905			.0310				
.950				.0180	.0560	.0860	
.953			.0090				
.955	.0230						

MACH (2) = 3.501 BETA (2) = -3.450

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0410	-.0200	.2660	1.0710	1.0140	1.0430	.9710
.050				.3710	.3430	.3630	.3540
.081			.2650				
.086		.1360					
.094	.1240						

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AMES 87-707 OA12 02A LOWER WING (RBGL06)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.450

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/Cw							
.150				.2900	.3660	.3690	.3610
.177			.2600				
.229	.1310						
.246		.1780					
.250				.2590	.3050	.3540	.3670
.362	.1410						
.400				.2480	.3310		.3650
.402			.1870				
.497	.1190						
.550				.2240	.2580		
.565			.1640				
.600							.2880
.650						.2470	
.700	.1120				.1870		
.725				.1230			
.750						.1830	.1930
.760			.1070				
.775				.0890	.1390		
.808			.0800				
.834	.0780						
.850				.0520	.1020	.1240	
.857			-.0360				
.865	.0510						
.900	.0380			.0220			.1110
.905			.0160				
.950				.0020	.0470	.0720	
.953			-.0020				
.965	.0210						

MACH (2) = 3.501 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0660	-.0640	.1100	.8760	.8450	.8620	.8030
.050				.3460	.3240	.3210	.3450
.081			.2140				
.086		.0980					
.094	.0950						
.150				.2630	.3290	.3320	.3480
.177			.1980				
.229	.1040						
.246		.1420					
.250				.2380	.2740	.3170	.3470
.362	.1170						
.400				.2290	.3020		.3460
.402			.1610				
.497	.1020						

AMES 8-FOOT C-12 C&A LOWER WING (RB9L06)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.160

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.570				.2080	.2320		
.585			.1460				
605							.2630
.631						.2070	
.700	.0970				.1630		
.725				.1140			
.750						.1510	.1730
.760			.0980				
.775				.0850	.1160		
.808			.0700				
.834	.0710						
.850				.0470	.0760	.1010	
.857			-.0290				
.865	.0470						
.900	.0370			.0210			.0950
.905			.0200				
.950				.0020	.0260	.0550	
.953			.0030				
.965	.0210						

MACH (2) = 3.501 BETA (4) = 3.140

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.000	-.0790	-.0870	-.0060	.6740	.6770	.7000	.6520
.050				.3070	.3110	.3110	.3300
.081			.1730				
.086		.0680					
.094	.0730						
.150				.2310	.3150	.3090	.3240
.177			.1880				
.229	.0820						
.246		.1140					
.250				.2070	.2460	.2890	.3170
.362	.1010						
.400				.2010	.2660		.3160
.402			.1410				
.497	.0920						
.550				.1870	.2130		
.565			.1320				
.600							.2400
.650						.1860	
.700	.1000				.1540		
.725				.1060			
.750						.1330	.1490
.760			.0920				
.775				.0790	.1000		

AMES 87-707 OA12 OEA LOWER WING (RB9L05)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.140

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.0710				
.834	.0760						
.850				.0450	.0630	.0870	
.857			-.0280				
.865	.0550						
.900	.0460			.0230			.0790
.905			.0250				
.950				.0050	.0170	.0450	
.953			.0100				
.965	.0270						

MACH (2) = 3.501 BETA (5) = 6.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0870	-.1020	-.0740	.4870	.5290	.5590	.5170
.050				.2570	.2830	.2950	.3160
.081			.1230				
.086		.0400					
.094	.0450						
.150				.1920	.2680	.2760	.2920
.177			.1580				
.229	.0630						
.246		.0830					
.250				.1680	.2110	.2540	.2910
.362	.0810						
.400				.1640	.2210		.2700
.402			.1260				
.497	.0730						
.550				.1570	.1890		
.565			.1220				
.600							.2090
.650						.1630	
.700	.0870				.1360		
.725				.0940			
.750						.1160	.1320
.760			.0850				
.775				.0690	.0830		
.808			.0660				
.834	.0710						
.850				.0370	.0520	.0730	
.857			-.0350				
.865	.0520						
.900	.0430			.0150			.0670
.905			.0210				
.950				-.0010	.0110	.0320	
.953			.0060				

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AMES 67-707 OA12 02A LOWER WING (RBGLDS)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0260						

AMES 87-707 OA12 O2A LOWER WING (RBGL07) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1430	-.1360	.0700	.8910	.8730	.8710	.7520
.050				.7990	.8970	.9390	.9960
.081			.5580				
.086		.3280					
.094	.3520						
.150				.6930	.8380	.8390	.8850
.177			.6120				
.229	.3710						
.246		.4390					
.250				.6380	.7210	.8050	.8590
.362	.3990						
.400				.6090	.7440		.7880
.402			.5040				
.497	.3680						
.550				.5720	.5790		
.565			.4790				
.600							.6310
.650						.5520	
.700	.3860				.4530		
.725				.4060			
.750						.4470	.4380
.760			.3630				
.775				.3410	.3680		
.808			.3240				
.834	.3170						
.850				.2590	.3180	.3450	
.857			-.0640				
.865	.2530						
.900	.2370			.2030			.2900
.905			.1930				
.950				.1700	.2080	.2370	
.953			.1540				
.965	.2010						

MACH (1) = 2.498 BETA (2) = -3.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1710	-.1660	-.0140	.7180	.7250	.7270	.6120
.050				.7290	.8180	.8700	.9180
.081			.4920				
.086		.2750					
.094	.3040						

AMES 87-707 OA12 C2A LOWER WING (RBQL07)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.320

Y/BW	.299	.384	.427	.534	.673	.780	.887
X/CW							
.150				.6210	.7610	.7800	.8180
.177			.5600				
.229	.3300						
.246		.3800					
.250				.5730	.6550	.7450	.7960
.362	.3600						
.400				.5590	.6830		.7350
.402			.4640				
.497	.3350						
.550				.5230	.5410		
.565			.4450				
.600							.5940
.650						.5140	
.700	.3660				.4240		
.725				.3690			
.750						.4180	.4190
.760			.3500				
.775				.3150	.3430		
.808			.3100				
.834	.3100						
.850				.2390	.2960	.3240	
.857			-.0690				
.865	.2530						
.900	.2340			.1850			.2780
.905			.1830				
.950				.1520	.1920	.2270	
.953			.1470				
.965	.1920						

MACH (1) = 2.498 BETA (3) = -.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1870	-.1880	-.0900	.5450	.5900	.5780	.4770
.050				.6650	.7540	.8010	.8440
.081			.4190				
.086		.2230					
.094	.2620						
.150				.5750	.7350	.7200	.7560
.177			.5090				
.229	.2920						
.246		.3360					
.250				.5290	.5980	.6870	.7430
.362	.3250						
.400				.5210	.6590		.6960
.402			.4350				
.497	.3070						

AMES 87-707 CM12 02A LOWER WING (RBQL07)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.150

Y/EW	.299	.364	.427	.534	.675	.780	.887
X/CW							
.050				[illegible]	.5150		
.565			.4240				
.000							.5640
.650						.4820	
.700	.3460				.3580		
.725				.3340			
.750						.3890	.4000
.760			.3230				
.775				.3080	.3180		
.80			.2930				
.834	.2650						
.850				.2340	.2700	.3030	
.857			-.0835				
.865	.2440						
.900	.2280			.1780			.2700
.907			.1790				
.950				.1450	.1760	.2110	
.953			.1500				
.965	.1880						

MACH (1) = 2.498 BETA (4) = 3.040

Y/EW	.299	.364	.427	.534	.675	.780	.887
X/CW							
.000	-.1970	-.2340	-.1370	.3920	.4570	.4450	.3510
.050				.6020	.7040	.7420	.7810
.081			.3580				
.086		.1760					
.094	.2200						
.150				.5190	.6960	.6730	.7060
.177			.4590				
.229	.2510						
.246		.2950					
.250				.4850	.5600	.6360	.6960
.362	.2890						
.400				.4910	.6200		.6410
.402			.4040				
.497	.2820						
.550				.4700	.4840		
.565			.4030				
.600							.5290
.650						.4520	
.700	.3340				.3790		
.725				.3380			
.750						.3700	.3740
.760			.3170				
.775				.2930	.3080		

AMES 87-707 OA12 02A LOWER WING (RB0L07)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.2920				
.834	.2920						
.850				.2220	.2600	.2830	
.857			-.0710				
.865	.2430						
.900	.2260			.1710			.2480
.905			.1790				
.950				.1400	.1630	.1980	
.953			.1480				
.965	.1860						

MACH (1) = 2.498 BETA (5) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1990	-.2050	-.1650	.2640	.3290	.3130	.2350
.050				.5410	.6460	.6730	.7070
.091			.3140				
.086		.1570					
.094	.1670						
.150				.4700	.6340	.6200	.6530
.177			.4240				
.229	.2320						
.246		.2720					
.250				.4480	.5180	.5930	.6480
.362	.2800						
.400				.4630	.5910		.6020
.402			.3860				
.497	.2690						
.550				.4500	.4570		
.565			.3910				
.600							.5000
.650						.4240	
.700	.3180				.3630		
.725				.3260			
.750						.3470	.3530
.760			.3090				
.775				.2870	.2920		
.808			.2840				
.834	.2810						
.850				.2160	.2450	.2650	
.857			-.0800				
.865	.2370						
.900	.2240			.1630			.2340
.905			.1780				
.950				.1310	.1600	.1860	
.953			.1490				

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQL07)

AMES 87-707 OA12 02A LOWER WING

DEPENDENT VARIABLE CP

SECTION (1)LOWER WING

MACH (1) = 2.493 BETA (5) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.1650						

MACH (2) = 3.501 BETA (1) = -6.710

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0480	-.0340	.2130	1.2360	1.0350	.8540	.7490
.050				.8400	.7870	.8380	.8790
.081			.5720				
.086		.3530					
.094	.3540			.6960	.7470	.7640	.7750
.150			.6210				
.177							
.229	.3730						
.246		.4450		.6410	.6590	.7230	.7530
.250							
.362	.3980			.6260	.7040		.7070
.400			.4940				
.402							
.497	.3560			.5660	.5580		
.550			.4630				.5890
.565						.5070	
.600					.4490		
.650				.3750		.4150	.4380
.700	.3600						
.725			.3610				
.750				.3160	.3460		
.760			.3120				
.775							
.808				.2450	.2840	.3330	
.834	.2910						
.850			-.0260				
.857				.1970			.3130
.865	.2350						
.900	.2190		.1900				
.905				.1590	.1890	.2450	
.950			.1540				
.953							
.565	.1840						

MACH (2) = 3.501 BETA (2) = -3.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0760	-.0650	.1020	1.0520	1.0230	.7890	.6460
.050				.7740	.8670	.7760	.8510
.081			.4950				
.086		.2960					
.094	.3070						

DATE 13 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A LOWER WING (REQL07)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.6390	.8220	.7190	.7510
.177			.5430				
.229	.3310						
.246		.3920					
.250				.5820	.6760	.6740	.7260
.362	.3590						
.400				.5620	.6780		.6800
.402			.4410				
.497	.3280						
.550				.5340	.5290		
.565			.4270				
.600							.5610
.650						.4760	
.700	.3300				.4260		
.725				.3690			
.750						.3870	.4020
.760			.3370				
.775				.3120	.3250		
.808			.2950				
.834	.2740						
.850				.2390	.2660	.3050	
.857			-.0390				
.865	.2250						
.900	.2090			.1850			.2780
.905			.1800				
.950				.1490	.1750	.2200	
.953			.1450				
.965	.1820						

MACH (2) = 3.501 BETA (3) = -.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0860	-.0810	.0210	.8360	.8590	.8590	.5930
.050				.6810	.8000	.8170	.7590
.081			.4180				
.086		.2450					
.094	.2620						
.150				.5630	.7500	.7410	.6840
.177			.4760				
.229	.2910						
.246		.3380					
.250				.5180	.6100	.6840	.6630
.362	.3230						
.400				.5140	.6540		.6330
.402			.4040				
.497	.2960						

AMES 67-707 OA12 02A LOWER WING (RBQL07)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.4890	.5240		
.565			.3940				
.600							.5230
.650						.4490	
.700	.3060				.4220		
.725				.3410			
.750						.3610	.3750
.760			.3140				
.775				.2910	.3240		
.808			.2740				
.834	.2600						
.850				.2250	.2620	.2810	
.857			-.0460				
.865	.2180						
.900	.2040			.1750			.2550
.905			.1710				
.950				.1400	.1660	.2010	
.953			.1390				
.965	.1710						

MACH (2) = 3.501 BETA (4) = 3.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0960	-.0970	-.0370	.6520	.6710	.6790	.5920
.050				.5890	.7030	.7310	.7890
.081			.3540				
.086		.2020					
.094	.2230						
.150				.4900	.6640	.6630	.7030
.177			.4160				
.229	.2540						
.246		.2950					
.250				.4530	.5410	.6120	.6770
.362	.2910						
.400				.4500	.5900		.6420
.402			.3630				
.497	.2690						
.550				.4340	.4750		
.565			.3520				
.600							.5340
.650						.4420	
.700	.2840				.3850		
.725				.3110			
.750						.3580	.3760
.760			.2880				
.775				.2700	.2930		

AMES 87-707 OA12 02A LOWER WING (RB0L07)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.2550				
.834	.2510						
.850				.2090	.2370	.2810	
.857			-.0440				
.865	.2120						
.900	.1950			.1620			.2450
.905			.1630				
.950				.1320	.1570	.2000	
.953			.1350				
.965	.1620						

MACH (2) = 3.501 BETA (5) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.800	-.0060	-.1410	-.0690	.4840	.5180	.5030	.4530
.850				.5080	.6100	.6330	.6920
.861			.2930				
.906		.1610					
.894	.1810						
.150				.4180	.5760	.5760	.6230
.177			.3620				
.225	.2120						
.248		.2910					
.270				.3030	.4670	.5340	.5970
.300	.2530						
.411				.3980	.5210		.5690
.412			.3260				
.437	.2390						
.550				.3900	.4210		
.565			.3230				
.600							.4770
.650						.3900	
.700	.2620				.3400		
.725				.2800			
.750						.3150	.3420
.760			.2650				
.775				.2440	.2590		
.808			.2360				
.834	.2360						
.850				.1910	.2090	.2430	
.857			-.0430				
.865	.1980						
.900	.1920			.1500			.2340
.905			.1550				
.950				.1200	.1420	.1660	
.953			.1290				

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A LOWER WING (RBGL07)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 5.501 BETA (5) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.985	.1480						

AMES 87-707 OA12 024 LOWER WING (RBGLD8) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0590	.0570	.3440	1.0300	.9570	.9640	.9550
.050				.0350	.0550	.0880	.0970
.081			-.0060				
.086		-.0270					
.094	-.0370						
.150				.0150	.0750	.1060	.1150
.177			.0140				
.229	-.0220						
.246		.0310					
.250				.0120	.0600	.1010	.1290
.362	.0080						
.400				.0310	.0700		.1240
.402			-.0010				
.497	-.0110						
.550				.0300	.0400		
.565			-.0120				
.600							.0800
.650						.0390	
.700	-.0340				.0050		
.725				-.0350			
.750						.0900	.1380
.760			-.0520				
.775				.0620	.0870		
.808			.0480				
.834	-.0630						
.850				.0400	.0690	.0790	
.857			-.0600				
.865	.0140						
.900	.0230			.0080			.0930
.905			.0040				
.950				-.0100	.0130	.0280	
.953			-.0200				
.965	-.0150						

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0230	.0260	.2890	.9080	.8370	.8500	.8350
.050				.0230	.0370	.0600	.0650
.081			.0150				
.086		-.0190					
.094	-.0380						

AMES 67-707 OA12 02A LOWER WING (RBGL08)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.500

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0130	.0540	.0750	.0860
.177			.0240				
.229	-.0110						
.246		.0410					
.250				.0230	.0460	.0720	.0980
.362	.0090						
.400				.0360	.0580		.0910
.402			-.0020				
.497	-.0050						
.550				.0310	.0390		
.565			-.0130				
.600							.0540
.650						.0240	
.700	-.0230				-.0010		
.725				-.0350			
.750						.0740	.1200
.760			-.0470				
.775				.0700	.0890		
.808			.0590				
.834	-.0540						
.850				.0430	.0680	.0700	
.857			-.0440				
.865	.0250						
.900	.0310			.0100			.0640
.905			.0180				
.950				-.0070	.0090	.0250	
.953			-.0070				
.965	-.0160						

MACH (1) = 2.498 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0020	.0080	.2570	.8110	.7360	.7510	.7330
.050				.0320	.0260	.0490	.0510
.081			.0460				
.086		.0050					
.094	-.0170						
.150				.0300	.0500	.0670	.0750
.177			.0440				
.229	.0030						
.246		.0420					
.250				.0330	.0470	.0660	.0840
.362	.0200						
.400				.0400	.0670		.0820
.402			.0080				
.497	.0060						

AMES 87-707 OA12 02A LOWER WING (RB9L08)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.0300	.0460		
.565			-.0010				
.600							.0530
.650						.0300	
.700	-.0100				-.0020		
.725				-.0300			
.750						.0870	.1180
.760			-.0380				
.775				.0850	.1020		
.808			.0690				
.834	-.0430						
.850				.0580	.0710	.0820	
.857			-.0430				
.865	.0400						
.900	.0390			.0190			.0690
.905			.0280				
.950				-.0020	.0140	.0370	
.953			.0070				
.965	-.0110						

MACH (1) = 2.498 BETA (4) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0160	-.0130	.2070	.7220	.6580	.6700	.6420
.050				.0500	.0290	.0320	.0290
.081			.0610				
.086		.0040					
.094	-.0100						
.150				.0500	.0620	.0530	.0600
.177			.0640				
.229	.0030						
.246		.0430					
.250				.0460	.0590	.0610	.0680
.362	.0160						
.400				.0510	.0770		.0710
.402			.0180				
.497	.0110						
.550				.0390	.0430		
.565			.0100				
.600							.0500
.650						.0280	
.700	.0020				.0060		
.725				-.0210			
.750						.0860	.1190
.760			-.0250				
.775				.0930	.0850		

AMES 67-707 OA12 02A LOWER WING (RBQL08)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.493 BETA (4) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			[illegible]				
.834	-.0250						
.850				.0670	.0680	.0780	
.857			-.0440				
.865	.0520						
.900	.0410			.0310			.0720
.905			.0420				
.950				.0090	.0100	.0280	
.953			.0190				
.965	-.0060						

MACH (1) = 2.496 BETA (5) = 6.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0310	-.0350	.1430	.6270	.5710	.5910	.5640
.050				.0780	.0350	.0380	.0340
.081			.0720				
.086		.0000					
.094	-.0070						
.150				.0620	.0770	.0670	.0710
.177			.0690				
.229	.0043						
.246		.0400					
.250				.0510	.0640	.0770	.0860
.362	.0120						
.430				.0530	.0800		.0860
.482			.0240				
.497	.0050						
.550				.0450	.0510		
.565			.0190				
.600							.0550
.650						.0400	
.700	.0120				.0080		
.725				-.0120			
.750						.0920	.1260
.760			-.0150				
.775				.0950	.1000		
.838			.0790				
.854	-.0160						
.856				.0710	.0760	.0880	
.857			-.0320				
.865	.0600						
.925	.0450			.0380			.0710
.905			.0470				
.950				.0170	.0200	.0400	
953			.0250				

AMES 87-707 OA12 02A LOWER WING (RBGL08)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0020						

MACH (2) = 3.501 BETA (1) = -6.670

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0680	.0740	.3790	1.1810	1.1030	1.1710	1.1690
.050				.1100	.1130	.1490	.1800
.081			.0320				
.086		.0020					
.094	-.0090						
.150				.0590	.1050	.1380	.1530
.177			.0260				
.229	-.0170						
.246		.0230					
.250				.0330	.0860	.1250	.1450
.362	-.0060						
.400				.0330	.1110		.1380
.402			.0000				
.497	-.0170						
.550				.0240	.0710		
.565			-.0070				
.600							.0930
.650						.0700	
.700	-.0260				.0230		
.725				-.0250			
.750						.1510	.1850
.760			-.0350				
.775				.0350	.0950		
.808			.0240				
.834	-.0450						
.850				.0260	.0720	.1070	
.857			-.0440				
.865	-.0100						
.900	.0090			.0050			.1260
.905			-.0040				
.950				-.0120	.0290	.0590	
.953			-.0230				
.965	-.0040						

MACH (2) = 3.501 BETA (2) = -3.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0300	.0350	2830	.9800	.9240	.9910	.9860
.050				.0850	.0950	.1140	.1390
.081			.0120				
.086		-.0120					
.094	-.0230						

DATE 10 SEP 79 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A LOWER WING (RB0L08)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0430	.0850	.1020	.1220
.177			.0130				
.229	-.0140						
.246		.0150					
.250				.0280	.0680	.0890	.1180
.362	.0010						
.400				.0270	.0800		.1080
.402			-.0030				
.497	-.0080						
.550				.0230	.0440		
.565			-.0070				
.600							.0650
.650						.0380	
.700	-.0190				.0030		
.725				-.0170			
.750						.1090	.1520
.760			-.0300				
.775				.0430	.0680		
.808			.0240				
.834	-.0390						
.850				.0360	.0520	.0780	
.857			-.0220				
.865	-.0030						
.900	.0140			.0160			.1000
.905			.0150				
.950				.0010	.0120	.0350	
.953			-.0010				
.965	-.0050						

MACH (2) = 3.501 BETA (3) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0060	.0100	.2080	.8180	.7760	.8180	.8040
.050				.0660	.0690	.0800	.0970
.081			.0200				
.086		-.0080					
.094	-.0150						
.150				.0500	.0600	.0690	.0810
.177			.0230				
.229	-.0050						
.246		.0170					
.250				.0230	.0450	.0590	.0820
.362	.0050						
.400				.0270	.0570		.0730
.402			.0040				
.497	-.0020						

AMES 87-707 OA12 O2A LOWER WING (RBQL08)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.0270	.0290		
.565			-.0030				
.600							.0380
.650						.0180	
.700	-.0100				-.0040		
.725				-.0120			
.750						.0810	.1190
.760			-.0270				
.775				.0490	.0590		
.808			.0310				
.834	-.0260						
.850				.0410	.0460	.0600	
.857			-.0150				
.865	.0100						
.900	.0220			.0170			.0710
.905			.0210				
.950				.0010	.0090	.0240	
.953			.0050				
.965	-.0010						

MACH (2) = 3.501 BETA (4) = 3.190

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0120	-.0110	.1430	.6700	.6390	.6640	.6570
.050				.0510	.0480	.0560	.0650
.081			.0290				
.086		-.0050					
.094	-.0110						
.150				.0230	.0410	.0460	.0540
.177			.0280				
.229	-.0020						
.246		.0180					
.250				.0200	.0300	.0400	.0540
.362	.0040						
.400				.0220	.0440		.0480
.402			.0040				
.497	-.0020						
.550				.0200	.0240		
.565			-.0010				
.600							.0200
.650						.0100	
.700	-.0060				-.0050		
.725				-.0170			
.750						.0690	.0340
.760			-.0210				
.775				.0450	.0540		

AMES 87-707 OA12 O2A LOWER WING (RB8L08)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.190

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.0260				
.834	-.0220						
.850				.0390	.0410	.0530	
.857			-.0250				
.865	.0140						
.900	.0170			.0150			.0540
.905			.0190				
.950				.0020	.0060	.0200	
.953			.0060				
.965	-.0050						

MACH (2) = 3.501 BETA (5) = 6.530

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0220	-.0230	.0800	.5210	.5230	.5510	.5380
.050				.0490	.0400	.0370	.0410
.081			.0300				
.086		-.0110					
.094	-.0120						
.150				.0270	.0390	.0290	.0380
.177			.0270				
.229	-.0070						
.246		.0100					
.250				.0250	.0310	.0270	.0370
.362	-.0010						
.400				.0250	.0460		.0310
.402			.0060				
.497	-.0050						
.550				.0230	.0210		
.565			.0030				
.600							.0090
.650						.0050	
.700	-.0030				-.0120		
.725				-.0090			
.750						.0630	.0930
.760			-.0130				
.775				.0450	.0410		
.808			.0290				
.834	-.0170						
.850				.0390	.0340	.0450	
.857			-.0350				
.865	.0190						
.900	.0190			.0190			.0520
.905			.0190				
.950				.0060	.0020	.0120	
.953			.0120				

AMES 87-707 OA12 02A LOWER WING (RBQL08)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.530

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0030						

AMES 87-70T CA12 C2A LOWER WING (RBQL09) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = 10.000 RUDFLP = 40.000

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0270	-.0110	.3490	1.0630	.9760	.9970	.9480
.050				.4400	.4450	.4540	.4890
.081			.3390				
.086		.1830					
.094	.1710						
.150				.3640	.4370	.4610	.4920
.177			.3290				
.229	.1710						
.246		.2400					
.250				.3270	.3790	.4380	.4760
.362	.1830						
.400				.3080	.3960		.4400
.402			.2300				
.497	.1560						
.550				.2770	.3280		
.565			.2000				
.600							.3450
.650						.2970	
.700	.1450				.2220		
.725				.1530			
.750						.4370	.4720
.760			.1240				
.775				.3380	.4030		
.808			.3130				
.834	.0900						
.850				.2780	.3390	.3790	
.857			-.0710				
.865	.2390						
.900	.2310			.2190			.3510
.905			.2160				
.950				.1910	.2280	.2790	
.953			.1710				
.965	.1400						

MACH (1) = 2.498 BETA (2) = -3.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0820	-.0810	.1990	.8950	.8350	.8660	.8100
.050				.4120	.4290	.4470	.4810
.081			.3020				
.086		.1430					
.094	.1430						

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AMES 87-70T OA12 02A LOWER WING (RBJLC9)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.540

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.3400	.4040	.4280	.4580
.177			.3200				
.229	.1520						
.246		.2040					
.250				.3010	.3510	.4020	.4400
.362	.1630						
.400				.2840	.3650		.4080
.402			.2140				
.497	.1400						
.550				.2590	.3100		
.565			.1920				
.600							.3140
.650						.2720	
.700	.1430				.2020		
.725				.1460			
.750						.4320	.4450
.760			.1200				
.775				.3280	.3760		
.808			.3000				
.834	.0950						
.850				.2660	.3140	.3570	
.857			-.0700				
.865	.2520						
.900	.2550			.2080			.3230
.905			.2120				
.950				.1790	.2180	.2570	
.953			.1740				
.965	.1390						

MACH (1) = 2.498 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1120	-.1210	.0530	.7430	.7040	.7370	.6880
.050				.3850	.4100	.4310	.4660
.081			.2570				
.086		.1050					
.094	.1130						
.150				.3110	.3700	.3980	.4290
.177			.2730				
.229	.1240						
.246		.1670					
.250				.2770	.3220	.3720	.4100
.362	.1370						
.400				.2600	.3450		.3790
.402			.1960				
.497	.1230						

AMES 87-707 OA12 02A LOWER WING (RBQL09)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.2360	.2910		
.565			.1790				
.600							.2880
.650						.2510	
.700	.1360				.1840		
.725				.1370			
.750						.4290	.4350
.760			.1140				
.775				.3140	.3570		
.803			.2820				
.834	.0960						
.850				.2610	.2980	.3350	
.857			-.0680				
.865	.2300						
.900	.2120			.2060			.3110
.905			.2110				
.950				.1770	.2060	.2430	
.953			.1780				
.965	.1300						

MACH (1) = 2.498 BETA (4) = 3.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1340	-.1420	-.0710	.5950	.5920	.6200	.5670
.050				.3590	.4020	.4110	.4460
.081			.2100				
.086		.0620					
.094	.0840						
.150				.2910	.3490	.3700	.3990
.177			.2410				
.229	.0940						
.246		.1330					
.250				.2580	.3020	.3510	.3840
.362	.1120						
.400				.2490	.3450		.3520
.402			.1820				
.497	.1060						
.550				.2290	.2670		
.565			.1730				
.600							.2580
.650						.2320	
.700	.1330				.1690		
.725				.1360			
.750						.4080	.4200
.760			.1160				
.775				.3030	.3430		

AMES 87-707 OA12 O2A LOWER WING (RBQL09)

SECTION (1)LOWER WING DEPENCENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.2690				
.834	.0980						
.850				.2590	.2840	.3080	
.857			-.0760				
.865	.2200						
.900	.1980			.2070			.2840
.905			.2140				
.950				.1770	.1950	.2220	
.953			.1770				
.965	.1280						

MACH (1) = 2.493 BETA (5) = 6.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1420	-.1620	-.1440	.4450	.4670	.4950	.4520
.050				.3430	.3810	.4000	.4310
.081			.1700				
.086		.0420					
.094	.0610						
.150				.2690	.3250	.3470	.3730
.177			.2240				
.229	.0810						
.246		.1100					
.250				.2380	.2800	.3240	.3560
.362	.1030						
.400				.2300	.3220		.3250
.402			.1740				
.497	.0950						
.550				.2100	.2510		
.565			.1730				
.600							.2450
.650						.2140	
.700	.1270				.1560		
.725				.1330			
.750						.3880	.4050
.760			.1190				
.775				.2870	.3390		
.908			.2590				
.834	.0970						
.850				.2500	.2760	.2970	
.857			-.0910				
.865	.2190						
.900	.1980			.2040			.2740
.905			.2060				
.950				.1690	.1950	.2180	
.953			.1710				

AMES 87-707 OA12 OA LOWER WING (RB9L09)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.1340						

MACH (2) = 3.501 BETA (1) = -6.750

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0110	.0270	.4120	1.2630	1.1800	1.0300	.9210
.050				.4210	.3760	.3440	.3510
.091			.3100				
.086		.1680					
.094	.1510						
.150				.3290	.3910	.3700	.3620
.177			.3080				
.229	.1530						
.246		.2120					
.250				.3020	.3490	.3620	.3640
.362	.1620						
.400				.2620	.3720		.3600
.402			.2030				
.497	.1320						
.550				.2560	.3040		
.565			.1800				
.600							.2950
.650						.2650	
.700	.1250				.2110		
.725				.1440			
.750						.4270	.4410
.760			.1150				
.775				.3130	.3670		
.808			.2770				
.834	.0800						
.850				.2720	.3100	.3460	
.857			-.0460				
.865	.1860						
.900	.2000			.2100			.3270
.905			.1990				
.950				.1730	.2150	.2650	
.953			.1590				
.965	.1470						

MACH (2) = 3.501 BETA (2) = -3.450

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0410	-.0200	.2660	1.0740	1.0120	1.0440	.9700
.050				.3760	.3390	.3550	.3480
.081			.2600				
.086		.1330					
.094	.1220						

AMES 87-70% CA1E (CA LOWER WING (REQLD9)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.45[illegible]

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.[illegible]				.2920	.3420	.3600	.3550
.177			.2570				
.[illegible]29	.1300						
.[illegible]245		.1760					
.250				.2630	.3050	.3470	.3560
.362	.1410						
.400				.2490	.3330		.3460
.402			.1830				
.497	.1170						
.500				.2240	.2750		
.565			.1620				
.600							.2740
.650						.2530	
.700	.1080				.1850		
.725				.1220			
.750						.4100	.4440
.760			.1060				
.775				.2830	.3350		
.808			.2590				
.834	.0740						
.850				.2480	.2830	.3230	
.857			-.0530				
.865	.1790						
.900	.1930			.1920			.3140
.905			.1000				
.950				.1530	.1970	.2440	
.953			.1420				
.965	.1370						

MACH (2) = 3.501 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0690	-.0650	.1080	.8760	.8430	.8600	.8010
.050				.3480	.3330	.3210	.3430
.081			.2190				
.086		.1010					
.094	.0970						
.150				.2660	.3180	.3300	.3480
.177			.2030				
.229	.1060						
.246		.1460					
.250				.2430	.2810	.3140	.3420
.362	.1210						
.400				.2360	.3220		.3250
.402			.1640				
.497	.1060						

AMES 87-707 OA12 O2A LOWER WING (RBQL09)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.301 BETA (3) = -.160

Y/BW	.239	.364	.427	.534	.673	.780	.887
X/CW							
.550				.2150	.2490		
.565			.1480				
.600							.2570
.650						.2220	
.700	.1020				.1650		
.725				.1220			
.750						.3660	.4180
.760			.1010				
.775				.2670	.3020		
.808			.2340				
.834	.0760						
.850				.2360	.2590	.2970	
.857			-.0370				
.865	.1580						
.900	.1690			.1870			.2960
.905			.1820				
.950				.1540	.1810	.2220	
.953			.1490				
.965	.1220						

MACH (2) = 3.501 BETA (4) = 3.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0770	-.0880	-.0070	.6740	.6750	.6990	.6480
.050				.3070	.3130	.3020	.3220
.081			.1710				
.086		.0660					
.094	.0690						
.150				.2300	.2910	.2990	.3180
.177			.1870				
.229	.0790						
.246		.1120					
.250				.2040	.2480	.2770	.3100
.362	.0990						
.400				.2020	.2770		.2930
.402			.1380				
.497	.0890						
.550				.1870	.2160		
.565			.1310				
.600							.2250
.650						.1890	
.700	.0980				.1380		
.725				.1070			
.750						.3180	.3720
.760			.0910				
.775				.2260	.2750		

AMES 87-707 OA12 02A LOWER WING (RB0L09)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.1890				
.834	.0740						
.850				.2080	.2280	.2600	
.857			-.0480				
.865	.1520						
.900	.1470			.1670			.2590
.905			.1640				
.950				.1410	.1530	.1890	
.953			.1410				
.965	.1080						

MACH (2) = 3.501 BETA (5) = 6.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0810	-.0970	-.0670	.4940	.5340	.5620	.5200
.050				.2660	.2880	.2880	.3110
.081			.1200				
.086		.0410					
.094	.0430						
.150				.1990	.2560	.2690	.2890
.177			.1540				
.229	.0590						
.246		.0840					
.250				.1770	.2160	.2460	.2750
.362	.0800						
.400				.1710	.2570		.2600
.402			.1240				
.497	.0740						
.550				.1610	.1940		
.565			.1220				
.600							.1960
.650						.1640	
.700	.0850				.1210		
.725				.1030			
.750						.2780	.3370
.760			.0690				
.775				.1970	.2470		
.808			.1740				
.834	.0690						
.850				.1870	.2120	.2360	
.857			-.0570				
.865	.1440						
.900	.1360			.1560			.2370
.905			.1520				
.950				.1330	.1430	.1710	
.953			.1310				

AMES 67-707 OA12 02A LOWER WING (RBQL09)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.1040						

AMES 87-707 OA12 C2A LOWER WING (RB3L10) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1420	-.1340	.0700	.8940	.8850	.8740	.7430
.050				.8060	.9090	.9380	.9430
.081			.5630				
.086		.3350					
.094	.3560						
.150				.6950	.8080	.8420	.8600
.177			.6200				
.229	.3760						
.246		.4410					
.250				.6410	.7270	.8050	.8570
.362	.4010						
.400				.6150	.8000		.7840
.402			.5070				
.497	.3740						
.550				.5760	.6510		
.565			.4820				
.600							.6150
.650						.5850	
.700	.3920				.4780		
.725				.4100			
.750						.8580	.8400
.765			.3660				
.775				.6760	.7440		
.808			.6220				
.834	.3210						
.850				.5820	.6500	.6840	
.857			-.0810				
.865	.5610						
.900	.5170			.5090			.6180
.905			.4970				
.950				.4660	.5070	.5440	
.953			.4360				
.965	.3560						

MACH (1) = 2.498 BETA (2) = -3.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1660	-.1610	-.0130	.7180	.7300	.7250	.6040
.050				.7380	.8350	.8710	.9230
.081			.4960				
.086		.2790					
.094	.3150						

AMES 87-707 OA12 OEA LOWER WING (PBQL10)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -5.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				[illegible]	.7410	.7850	.8240
.177			.5670				
.229	.3380						
.246		.3940					
.250				[illegible]	.6650	.7440	.7970
.362	.3540						
.400				.5700	.7410		.8320
.402			.4730				
.497	.3400						
550				.5370	.6050		
.565			.4540				
.600							.5840
.650						.5470	
.[illegible]	.3730				.4430		
.725				.5290			
.750						.6100	.6080
.760			.3610				
775				.6490	.7050		
.[illegible]			.6193				
.834	.3170						
.850				.5840	.6250	.6590	
.957			-.0848				
865	.5460						
.900	.4960			.4680			.6080
.905			.4920				
.950				.4500	.4910	.5270	
.953			.4380				
.985	.3480						

MACH (1) = 2.498 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1850	-.1860	-.0880	.5470	.5800	.5790	.4710
.050				.6710	.7620	.7960	.8420
.091			.4270				
.086		.2300					
.094	.2620						
.150				.5760	.6920	.7170	.7590
.177			.5070				
.229	.2940						
.246		.3440					
.250				.5310	.6070	.6830	.7380
.362	.3240						
.400				.5250	.6810		.6810
.402			.4360				
.497	.3110						

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AMES 87-707 0A12 02A LOWER WING (RE 3L10)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.4960	.5610		
.565			.4220				
.600							.5450
.650						.5090	
.700	.3510				.4110		
.725				.3710			
.750						.7710	.7660
.760			.3370				
.775				.6250	.6650		
.808			.5790				
.834	.2990						
.850				.5420	.5890	.6260	
.857			-.0950				
.865	.5090						
.900	.4640			.4730			.5820
.905			.4790				
.950				.4340	.4650	.5020	
.953			.4200				
.965	.3400						

MACH (1) = 2.498 BETA (4) = 3.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1930	-.2020	-.1040	.3930	.4560	.4460	.3480
.050				.6100	.7120	.7400	.7760
.081			.3660				
.086		.1790					
.094	.2230						
.150				.5280	.6520	.6710	.7100
.177			.4610				
.229	.2510						
.246		.3040					
.250				.4960	.5670	.6360	.6930
.362	.2920						
.400				.4090	.6430		.6360
.402			.4090				
.497	.2900						
.550				.4800	.5350		
.565			.4090				
.600							.5160
.650						.4820	
.700	.3380				.3890		
.725				.3600			
.750						.7370	.7260
.760			.3320				
.775				.6060	.6460		

AMES 67-707 OA12 02A LOWER WING (RB8L10)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.040

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.808			.5520				
.834	.2970						
.850				.5320	.5730	.6000	
.857			-.0960				
.865	.4900						
.900	.4510			.4590			.5580
.905			.4680				
.950				.4160	.4500	.4880	
.953			.4080				
.965	.3400						

MACH (1) = 2.498 BETA (5) = 6.240

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.000	-.1960	-.2080	-.1650	.2600	.3260	.3110	.2300
.050				.5420	.6530	.6750	.7090
.081			.3180				
.086		.1590					
.094	.1880						
.150				.4760	.5970	.6180	.6580
.177			.4260				
.229	.2310						
.246		.2750					
.250				.4610	.5220	.5930	.6530
.362	.2790						
.400				.4720	.5990		.5980
.402			.3860				
.497	.2720						
.550				.4560	.5010		
.565			.3920				
.600							.4860
.650						.4540	
.700	.3210				.3680		
.725				.3460			
.750						.7040	.6860
.760			.3250				
.775				.5800	.6140		
.808			.5440				
.834	.2840						
.850				.5050	.5500	.5760	
.857			-.1020				
.865	.4750						
.900	.4370			.4370			.5320
.905			.4500				
.950				.3980	.4320	.4680	
.953			.3910				

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 O2A LOWER WING (R9@L10)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.3440						

MACH (2) = 3.501 BETA (1) = -6.710

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0560	-.0370	.2130	1.2600	1.0380	.8550	.7600
.050				.8400	.7820	.8270	.8650
.081			.5660				
.086		.3470					
.094	.3490						
.150				.6920	.7140	.7540	.7670
.177			.6140				
.229	.3680						
.246		.4390					
.250				.6391	.6520	.7130	.7400
.362	.3940						
.400				.6227	.7140		.6920
.402			.4840				
.497	.3520						
.550				.5610	.5980		
.565			.4570				
.600							.5700
.650						.5250	
.700	.3550				.4390		
.725				.3720			
.750						.7930	.7560
.760			.3460				
.775				.6350	.6910		
.808			.6250				
.834	.2850						
.850				.5620	.5980	.6530	
.857			-.0400				
.865	.4900						
.900	.4870			.4760			.5880
.905			.4760				
.950				.4240	.4620	.5010	
.953			.4110				
.965	.3660						

MACH (2) = 3.501 BETA (2) = -3.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0700	-.0620	.1050	1.0530	1.0220	.7930	.6600
.050				.7730	.8610	.7620	.8390
.081			.4880				
.086		.2920					
.094	.3050						

AMES 67-7C7 OA12 O2A LOWER WING (RBGL10)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.6370	.7670	.7040	.7400
.177			.5390				
.229	.3280						
.246		.3860					
.250				.5830	.6720	.6620	.7160
.362	.3530						
.400				.5610	.6950		.6610
.402			.4380				
.497	.3210						
.550				.5350	.5680		
.565			.4220				
.600							.5380
.650						.4910	
.700	.3240				.4140		
.725				.3720			
.750						.7460	.7670
.760			.3240				
.775				.6310	.6[illegible]0		
.808			.5930				
.834	.2680						
.850				.5550	.5800	.6150	
.857			-.0430				
.865	.4570						
.900	.4610			.4650			.5710
.905			.4670				
.950				.4140	.4460	.4970	
.953			.4090				
.965	.3450						

MACH (2) = 3.501 BETA (3) = -.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0850	-.0850	.0190	.8370	.8550	.8610	.5890
.050				.6820	.7980	.8090	.7510
.081			.4170				
.086		.2410					
.094	.2590						
.150				.5660	.7010	.7330	.6760
.177			.4750				
.229	.2860						
.246		.3350					
.250				.5210	.6120	.6740	.6560
.362	.3170						
.400				.5170	.6720		.6200
.402			.3960				
.497	.2920						

AMES 87-707 OA12 02A LOWER WING (REGL10)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.4940	.5650		
.565			.3870				
.600							.5070
.650						.4670	
.700	.3020				.4150		
.725				.3500			
.750						.6970	.7290
.763			3050				
.775				.5840	.6670		
.808			.5460				
.831	.2580						
.850				.5300	.5780	.5860	
.857			-.0500				
.875	.4340						
.900	.4290			.4470			.5530
.905			.4500				
.950				.3990	.4270	.4670	
.953			.3960				
.965	.3310						

MACH (2) = 3.501 BETA (4) = 3.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0850	-.0960	-.0830	.6540	.6730	.6820	.5960
.050				.5930	.7040	.7200	.7790
.081			.3510				
.086		.2010					
.094	.2180						
.100				.4920	.6200	.6530	.6910
.177			.4130				
.229	2480						
.240		.2920					
.250				.4550	.5400	.6030	.6680
.302	.2860						
.400				.4520	.6050		.6270
.402			.3360				
.437	.2670						
500				.4360	.5050		
.503			.3470				
.600							.5140
.650						.4600	
.700	.2810				.3720		
.725				.3170			
.750						.7000	.7330
.760			.2880				
.775				.5300	.6080		

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 67-7D7 OA12 OEA LOWER WING (RBOL10)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.4860				
.834	.2460						
.850				.4970	.5340	.5770	
.857			-.0540				
.865	.4050						
.900	.3920			.4220			.5370
.905			.4200				
.950				.3770	.4090	.4600	
.953			.3720				
.965	.3090						

MACH (2) = 3.501 BETA (5) = 6.480

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0950	-.1040	-.0670	.4860	.5140	.5220	.4540
.050				.5080	.6130	.6260	.6880
.081			.2900				
.086		.1670					
.094	.1800						
.150				.4230	.5370	.5730	.6140
.177			.3640				
.229	.2100						
.246		.2510					
.250				.3980	.4690	.5320	.5940
.362	.2510						
.400				.4020	.5370		.5570
.402			.3230				
.497	.2400						
.550				.3940	.4500		
.565			.3220				
.600							.4570
.650						.4090	
.700	.2620				.3310		
.725				.2940			
.750						.6370	.6770
.760			.2700				
.775				.4810	.5390		
.808			.1460				
.834	.2350						
.850				.4560	.4870	.5290	
.857			-.0560				
.865	.3850						
.900	.3720			.3930			.5200
.905			.3980				
.950				.3490	.3780	.4170	
.953			.3470				

AMES 87-7D OA12 O2A LOWER WING (RBQL10)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.480

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.2990						

AMES 87-707 OA12 OBA LOWER WING (RBQL11) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0620	.0560	.3460	1.0270	.9610	.9680	.9620
.050				.0350	.0560	.0870	.0940
.081			-.0080				
.086		-.0310					
.094	-.0380						
.150				.0160	.0780	.1070	.1120
.177			.0120				
.229	-.0250						
.246		.0270					
.250				.0120	.0620	.1000	.1310
.362	.0050						
.400				.0340	.0760		.1280
.402			-.0010				
.497	-.0130						
.550				.0310	.0420		
.565			-.0120				
.600							.0730
.650						.0340	
.700	-.0360				-.0110		
.725				-.0350			
.750						-.1650	-.1550
.760			-.0540				
.775				-.1600	-.1650		
.808			-.1520				
.834	-.0650						
.850				-.1570	-.1620	-.1600	
.857			-.0400				
.865	-.1670						
.900	-.1720			-.1510			-.1550
.905			-.1520				
.950				-.1460	-.1610	-.1570	
.953			-.1510				
.965	-.1580						

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0270	.0290	.2970	.9130	.8460	.8530	.8390
.050				.0310	.0410	.0610	.0640
.081			.0210				
.086		-.0120					
.094	-.0320						

AMES 87-707 OA12 O2A LOWER WING (SBGL11)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0210	.0610	.0780	.0860
.177			.0310				
.229	-.0020						
.246		.0440					
.250				.0300	.0510	.0760	.0960
.362	.0160						
.400				.0420	.0660		.0920
.402			.0040				
.497	.0010						
.550				.0370	.0410		
.565			-.0040				
.600							.0430
.650						.0160	
.700	-.0180				-.0100		
.725				-.0320			
.750						-.1720	-.1580
.760			-.0430				
.775				-.1660	-.1710		
.808			-.1600				
.834	-.0490						
.850				-.1570	-.1670	-.1690	
.857			-.0240				
.865	-.1660						
.900	-.1690			-.1560			-.1600
.905			-.1520				
.950				-.1520	-.1630	-.1670	
.953			-.1540				
.965	-.1530						

MACH (1) = 2.498 BETA (3) = -.220

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0020	.0090	.2600	.8130	.7400	.7530	.7390
.050				.0340	.0330	.0440	.0440
.081			.0450				
.086		.0010					
.094	-.0170						
.150				.0320	.0570	.0630	.0710
.177			.0470				
.229	.0020						
.246		.0430					
.250				.0360	.0470	.0620	.0830
.362	.0210						
.400				.0420	.0680		.0800
.402			.0090				
.497	.0060						

AMES 67-707 OA12 02A LOWER WING (RB0L11)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.220

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.0340	.0440		
.565			-.0020				
.600							.0340
.650						.0210	
.700	-.0080				-.0060		
.725				-.0290			
.750						-.1690	-.1600
.760			-.0390				
.775				-.1720	-.1710		
.808			-.1640				
.834	-.0390						
.850				-.1660	-.1720	-.1720	
.857			-.0220				
.865	-.1590						
.900	-.1730			-.1680			-.1630
.905			-.1590				
.950				-.1650	-.1700	-.1720	
.953			-.1620				
.965	-.1690						

MACH (1) = 2.498 BETA (4) = 3.070

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0140	-.0100	.2120	.7230	.6610	.6730	.6470
.050				.0420	.0190	.0260	.0220
.081			.0590				
.086		.0050					
.094	-.0110						
.150				.0420	.0430	.0470	.0580
.177			.0600				
.223	.0040						
.246		.0440					
.252				.0370	.0470	.0590	.0680
.362	.0160						
.400	-			.0420	.0650		.0670
.402			.0160				
.497	.0110						
.550				.0290	.0410		
.565			.0080				
.600							.0240
.650						.0160	
.700	.0010				-.0160		
.725				-.0340			
.750						-.1790	-.1600
.760			-.0250				
.775				-.1810	-.1810		

AMES 87-707 CA12 02A LOWER WING (F8GL11)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.070

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1580				
.834	-.0260						
.850				-.1770	-.1810	-.1830	
.857			-.0390				
.865	-.1530						
.900	-.1630			-.1740			-.1610
.905			-.1680				
.950				-.1700	-.1800	-.1810	
.953			-.1720				
.965	-.1640						

MACH (1) = 2.498 BETA (5) = 6.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0350	-.0370	.1380	.6260	.5730	.5850	.5650
.050				.0730	.0280	.0240	.0180
.081			.0660				
.086		-.0070					
.094	-.0090						
.150				.0560	.0680	.0530	.0560
.177			.0640				
.229	.0010						
.246		.0360					
.250				.0440	.0580	.0650	.0700
.362	.0050						
.400				.0440	.0700		.0710
.402			.0210				
.497	.0030						
.550				.0360	.0380		
.565			.0150				
.600							.0270
.650						.0150	
.700	.0050				-.0180		
.725				-.0210			
.750						-.1810	-.1650
.760			-.0200				
.775				-.1680	-.1820		
.808			-.1570				
.834	-.0230						
.850				-.1630	-.1790	-.1770	
.857			-.0570				
.865	-.1530						
.900	-.1620			-.1640			-.1630
.905			-.1580				
.950				-.1590	-.1780	-.1740	
.953			-.1560				

AMES 87-707 OA12 02A [illegible] WING (RBQL11)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.1520						

MACH (2) = 3.502 BETA (1) = -6.670

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0840	.0880	.3890	1.1880	1.1120	1.1770	1.1600
.050				.1160	.1190	.1580	.1870
.081			.0380				
.086		.0040					
.094	-.0030						
.150				.0640	.1130	.1490	.1630
.177			.0290				
.229	-.0140						
.246		.0250					
.250				.0410	.0930	.1340	.1570
.362	-.0030						
.400				.0410	.1040		.1500
.402			.0060				
.497	-.0150						
.550				.0300	.0800		
.565			-.0050				
.600							.1060
.650						.0810	
.700	-.0210				.0340		
.725				-.0180			
.750						-.0660	-.0630
.760			-.0320				
.775				-.0980	-.0740		
.808			-.0850				
.834	-.0380						
.850				-.0930	-.0800	-.0820	
.857			-.0250				
.865	-.0880						
.900	-.0910			-.0930			-.0760
.905			-.0910				
.950				-.0960	-.0810	-.0800	
.953			-.0930				
.965	-.0960						

MACH (2) = 3.502 BETA (2) = -3.410

Y/BW	.295	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0340	.0390	.2890	.9850	.9310	.9960	.9910
.050				.0790	.0870	.1250	.1460
.081			.0160				
.086		-.0120					
.094	-.0200						

AMES 87-707 OA12 O2A LOWER WING (CB9L11)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -3.410

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0360	.0760	.1120	.1320
.177			.0160				
.229	-.0140						
.246		.0150					
.250				.0190	.0600	.1010	.1310
.362	.0010						
.400				.0190	.0700		.1200
.402			.0000				
.497	-.0050						
.550				.0150	.0530		
.565			-.0060				
.600							.0750
.650						.0520	
.700	-.0170				.0140		
.725				-.0260			
.750						-.0750	-.0820
.760			-.0290				
.775				-.0990	-.0790		
.808			-.0930				
.834	-.0370						
.850				-.0970	-.0880	-.0890	
.857			-.0250				
.865	-.0950						
.900	-.0960			-.0960			-.0820
.905			-.0970				
.950				-.0960	-.0850	-.0870	
.953			-.0990				
.965	-.0990						

MACH (2) = 3.502 BETA (3) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0030	.0060	.2070	.8210	.7810	.8230	.8110
.050				.0570	.0600	.0870	.1040
.081			.0210				
.086		-.0100					
.094	-.0160						
.150				.0220	.0500	.0750	.0880
.177			.0210				
.229	-.0040						
.246		.0150					
.250				.0120	.0370	.0650	.0880
.362	.0060						
.400				.0180	.0440		.0780
.402			.0030				
.497	-.0030						

AMES 67-707 OA12 O2A LOWER WING (RBGL11)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.0140	.0360		
.565			-.0030				
.600							.0440
.650						.0250	
.700	-.0120				.0030		
.725				-.0260			
.750						-.0830	-.0670
.760			-.0250				
.775				-.1000	-.0840		
.808			-.0930				
.834	-.0260						
.850				-.0990	-.0950	-.0930	
.857			-.0200				
.865	-.0890						
.900	-.0950			-.0970			-.0850
.905			-.0950				
.950				-.1000	-.0900	-.0900	
.953			-.1010				
.965	-.0930						

MACH (2) = 3.502 BETA (4) = 3.180

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0070	-.0030	.1500	.6810	.6510	.6770	.6670
.050				.0430	.0410	.0550	.0650
.071			.0260				
.086		-.0070					
.094	-.0140						
.150				.0180	.0360	.0490	.0570
.177			.0260				
.229	-.0070						
.246		.0170					
.250				.0140	.0220	.0420	.0550
.362	.0030						
.400				.0170	.0340		.0500
.402			.0020				
.497	-.0020						
.550				.0130	.0280		
.565			-.0030				
.600							.0200
.650						.0130	
.700	-.0080				-.0050		
.725				-.0260			
.750						-.0900	-.0670
.760			-.0230				
.775				-.1000	-.0920		

AMES 87-707 OA12 02A LOWER WING (RBOL11)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.180

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0890				
.834	-.0230						
.850				-.0990	-.1020	-.1010	
.857			-.0270				
.865	-.0850						
.900	-.0950			-.0970			-.0960
.905			-.0950				
.950				-.0980	-.0980	-.0930	
.953			-.1010				
.965	-.0940						

MACH (2) = 3.502 BETA (5) = 6.530

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0270	-.0270	.0760	.5200	.5250	.5560	.5430
.050				.0360	.0290	.0350	.0380
.081			.0300				
.086		-.0110					
.094	-.0120						
.150				.0160	.0290	.0320	.0380
.177			.0270				
.229	-.0090						
.246		.0080					
.250				.0120	.0190	.0290	.0390
.362	-.0030						
.400				.0150	.0310		.0340
.402			.0060				
.497	-.0050						
.550				.0110	.0200		
.565			.0010				
.600							.0110
.650						.0060	
.700	-.0040				-.0140		
.725				-.0240			
.750						-.0940	-.0680
.760			-.0160				
.775				-.0990	-.0950		
.808			-.0840				
.834	-.0170						
.850				-.1020	-.1070	-.1020	
.857			-.0430				
.865	-.0800						
.900	-.0890			-.1010			-.0860
.905			-.0940				
.950				-.1000	-.1030	-.1010	
.953			-.0920				



AMES 87-INCH C-12 C2A LOWER WING (RB6L11)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 6.530

	Y/CW	.299	.364	.427	.534	.673	.780	.887
	Y/CW							
	.065	-.0920						

AMES 87-707 OA12 C2A LOWER WING (RBSL12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.530

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0270	-.0090	.3520	1.0390	.9710	1.0000	.9530
.050				.4330	.4390	.4520	.4890
.081			.3350				
.086		.1800					
.094	.1680						
.150				.3670	.4310	.4630	.4890
.177			.3260				
.229	.1720						
.246		.2390					
.250				.3220	.3760	.4370	.4730
.362	.1820						
.400				.3050	.3870		.4370
.402			.2270				
.497	.1560						
.550				.2710	.3270		
.565			.1980				
.600							.3250
.650						.2960	
.700	.1410				.2150		
.725				.1450			
.750						-.1000	-.0930
.760			.1210				
.775				-.1190	-.1050		
.808			-.1050				
.834	.0880						
.850				-.1540	-.1430	-.1360	
.857			-.0670				
.865	-.1230						
.900	-.1410			-.1370			-.1250
.905			-.1410				
.950				-.1390	-.1410	-.1360	
.953			-.1450				
.965	-.1110						

MACH (1) = 2.498 BETA (2) = -3.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0750	-.0760	.2060	.9030	.8360	.8750	.8190
.050				.4040	.4230	.4340	.4690
.081			.2960				
.086		.1420					
.094	.1390						

AMES 87-707 OA12 O2A LOWER WING (RBOL12)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.3320	.3960	.4170	.4470
.177			.3080				
.229	.1460						
.246		.1960					
.250				.2960	.3430	.3940	.4320
.362	.1580						
.400				.2790	.3580		.3980
.402			.2100				
.497	.1380						
.550				.2480	.2990		
.565			.1900				
.600							.2890
.650						.2660	
.700	.1400				.1900		
.725				.1320			
.750						-.1130	-.1040
.760			.1150				
.775				-.1250	-.1180		
.809			-.1080				
.834	.0910						
.850				-.1660	-.1560	-.1520	
.857			-.0660				
.865	-.1240						
.900	-.1410			-.1520			-.1370
.905			-.1510				
.950				-.1480	-.1610	-.1550	
.953			-.1530				
.965	-.1260						

MACH (1) = 2.498 BETA (3) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1140	-.1220	.0560	.7450	.7070	.7400	.6930
.050				.3620	.4030	.4260	.4670
.081			.2530				
.086		.1030					
.094	.1110						
.150				.3090	.3620	.3990	.4270
.177			.2680				
.229	.1190						
.246		.1640					
.250				.2720	.3140	.3740	.4120
.362	.1360						
.400				.2540	.3350		.3780
.402			.1910				
.497	.1210						

AMES 87-707 OA12 02A LOWER WING (RPQL12)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.2300	.2900		
.565			.1770				
.600							.2800
.650						.2590	
.700	.1330				.1840		
.725				.1250			
.750						-.1030	-.1080
.760			.1110				
.775				-.1240	-.1100		
.808			-.1080				
.834	.0910						
.850				-.1630	-.1500	-.1410	
.857			-.0540				
.863	-.1150						
.900	-.1330			-.1600			-.1440
.905			-.1660				
.950				-.1550	-.1520	-.1510	
.953			-.1580				
.965	-.1270						

MACH (1) = 2.498 BETA (4) = 3.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1260	-.1350	-.0640	.6030	.6000	.6270	.5750
.050				.3530	.3970	.3980	.4330
.081			.2120				
.086		.0630					
.094	.0870						
.150				.2810	.3450	.3580	.3780
.177			.2440				
.229	.0970						
.246		.1360					
.250				.2510	.2960	.3360	.3700
.362	.1140						
.400				.2420	.3390		.3390
.402			.1850				
.497	.1110						
.550				.2190	.2510		
.565			.1760				
.600							.2410
.650						.2210	
.700	.1340				.1480		
.725				.1250			
.750						-.1310	-.1060
.760			.1200				
.775				-.1220	-.1370		

AMES 87-707 OA12 O2A LOWER WING (RBQL12)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0950				
.834	.1000						
.850				-.1610	-.1780	-.1710	
.857			-.0780				
.865	-.1050						
.900	-.1180			-.1780			-.1440
.905			-.1660				
.950				-.1640	-.1700	-.1780	
.953			-.1650				
.965	-.1260						

MACH (1) = 2.498 BETA (5) = 6.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1380	-.1540	-.1350	.4500	.4780	.5030	.4550
.050				.3490	.3860	.4050	.4360
.081			.1710				
.086		.0440					
.094	.0620						
.150				.2740	.3300	.3530	.3740
.177			.2240				
.229	.0840						
.246		.1130					
.250				.2420	.2810	.3300	.3590
.362	.1060						
.400				.2340	.3240		.3300
.402			.1760				
.497	.0970						
.550				.2160	.2540		
.565			.1730				
.600							.2470
.650						.2270	
.700	.1300				.1570		
.725				.1330			
.750						-.1060	-.1110
.760			.1220				
.775				-.1040	-.1130		
.808			-.0930				
.834	.0990						
.850				-.1410	-.1500	-.1480	
.857			-.0790				
.865	-.1080						
.900	-.1170			-.1570			-.1490
.905			-.1510				
.950				-.1610	-.1490	-.1370	
.953			-.1440				

AMES 87-707 OA12 02A LOWER WING (RBOL12)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.1360						

MACH (2) = 3.502 BETA (1) = -3.780

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0020	.0360	.4210	1.2700	1.1910	1.0340	.9310
.050				.4160	.3720	.3490	.3550
.081			.3120				
.086		.1700					
.094	.1570						
.100				.3290	.3880	.3730	.3640
.177			.3120				
.209	.1550						
.246		.2150					
.250				.2990	.3480	.3650	.3660
.362	.1640						
.400				.2810	.3710		.3630
.402			.2090				
.497	.1360						
.550				.2540	.3070		
.565			.1830				
.600							.2950
.650						.2800	
.700	.1280				.2080		
.725				.1400			
.750						-.0320	-.0230
.760			.1160				
.775				-.0570	-.0390		
.806			-.0450				
.834	.0820						
.850				-.0910	-.0750	-.0710	
.857			-.0500				
.865	-.0560						
.900	-.0760			-.0900			-.0550
.905			-.0830				
.950				-.0880	-.0760	-.0700	
.953			-.0830				
.965	-.0720						

MACH (2) = 3.502 BETA (2) = -3.460

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0340	-.0110	.2740	1.0780	1.0200	1.0500	.9770
.050				.3800	.3430	.3670	.3590
.081			.2640				
.086		.1360					
.094	.1260						

AMES 87-707 OA12 OBA LOWER WING (RBQL12)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -3.460

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.2940	.3460	.3720	.3670
.177			.2600				
.229	.1340						
.246		.1780					
.250				.2660	.3070	.3590	.3690
.362	.1440						
.400				.2530	.3400		.3570
.402			.1660				
.497	.1220						
.550				.2260	.2860		
.565			.1630				
.600							.2870
.650						.2740	
.700	.1120				.1980		
.725				.1220			
.750						-.0230	-.0290
.760			.1080				
.775				-.0570	-.0300		
.808			-.0450				
.834	.0790						
.850				-.0890	-.0640	-.0630	
.857			-.0330				
.865	-.0560						
.900	-.0750			-.0970			-.0560
.905			-.0890				
.950				-.0910	-.0730	-.0640	
.953			-.0890				
.965	-.0730						

MACH (2) = 3.502 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0620	-.0610	.1160	.8820	.8520	.8710	.8120
.050				.3470	.3260	.3300	.3550
.081			.2200				
.086		.1010					
.094	.0990						
.150				.2620	.3110	.3420	.3590
.177			.2060				
.229	.1090						
.246		.1470					
.250				.2360	.2750	.3240	.3520
.362	.1220						
.400				.2290	.3170		.3350
.402			.1650				
.497	.1080						

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A LOWER WING (RBQL12)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.2070	.2590		
.565			.1490				.2660
.600						.2360	
.650					.1730		
.700	.1030			.1100			
.725						-.0290	-.0350
.750			.1020				
.760				-.0620	-.0350		
.775			-.0460				
.808							
.834	.0760			-.0900	-.0680	-.0660	
.850			-.0410				
.857							
.865	-.0510			-.0990			-.0650
.900	-.0680		-.0950				
.905				-.0960	-.0820	-.0720	
.950			-.0930				
.953							
.965	-.0660						

MACH (2) = 3.502 BETA (4) = 3.140

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0720	-.0840	-.0010	.6780	.6800	.7020	.6540
.050				.3010	.3090	.3100	.3300
.081			.1720				
.086		.0670					
.094	.0720						
.150				.2280	.2860	.3050	.3240
.177			.1900				
.229	.0830						
.246		.1140					
.250				.2030	.2420	.2880	.3160
.362	.1000						
.400				.1980	.2730		.3010
.402			.1420				
.497	.0920						
.550				.1840	.2240		
.565			.1330				
.600							.2350
.650						.2020	
.700	.0990				.1470		
.725				.1010			
.750						-.0350	-.0390
.760			.0930				
.775				-.0600	-.0450		

AMES 87-707 OA12 OEA LOWER WING (REQL12)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.140

Y/BW	.299	.364	.427	.534	.675	.780	.887
X/CW							
.808			-.0430				
.834	.0760						
.850				-.0840	-.0770	-.0690	
.857			-.0450				
.865	-.0460						
.900	-.0620			-.0940			-.0710
.905			-.0840				
.950				-.0900	-.0830	-.0800	
.953			-.0920				
.965	-.0660						

MACH (2) = 3.502 BETA (5) = 6.430

Y/BW	.299	.364	.427	.534	.675	.780	.887
X/CW							
.000	-.0840	-.0960	-.0690	.4920	.5320	.5590	.5180
.050				.2580	.2810	.2940	.3180
.081			.1190				
.086		.0380					
.094	.0420						
.150				.1890	.2460	.2770	.2970
.177			.1530				
.229	.0590						
.246		.0800					
.250				.1670	.2080	.2560	.2830
.362	.0780						
.400				.1630	.2420		.2670
.402			.1240				
.497	.0710						
.550				.1520	.2030		
.565			.1200				
.600							.2050
.650						.1780	
.700	.0830				.1280		
.725				.0900			
.750						-.0380	-.0440
.760			.0870				
.775				-.0570	-.0530		
.808			-.0450				
.834	.0660						
.850				-.0840	-.0810	-.0750	
.857			-.0590				
.865	-.0520						
.900	-.0660			-.0930			-.0750
.905			-.0870				
.950				-.0990	-.0850	-.0870	
.953			-.0920				

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQL12)

AMES 87-707 OA12 C2A LOWER WING

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 6.430

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0790						

AMES 87-707 OA12 O2A LOWER WING (RBGL13) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
SREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)LOWER WING DEPENDENT VARIABLE C_P

MACH (1) = 2.498 BETA (1) = -6.490

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.1270	-.1320	.0710	.4950	.8870	.8770	.7460
.050				.8020	.9090	.9440	.9960
.081			.3640				
.086		.3343					
.094	.3580						
.150				.5943	.8050	.8460	.8870
.177			.6220				
229	.3750						
.243		.4420					
.250				.6360	.7210	.8100	.8630
.362	.4000						
.400				.6120	.8010		.7890
.472			.5100				
.497	.3740						
.5[illegible]				.5720	.6520		
.565			.4810				
.600							.6170
650						.6050	
.700	.3950				.4800		
.725				.4020			
.750						-.0060	-.0040
.760			.3650				
.775				-.0260	-.0140		
.805			-.0070				
.834	.3220						
.850				-.0910	-.0670	-.0550	
.857			-.0840				
.865	-.0490						
.900	-.0690			-.1120			-.0710
.905			-.1130				
.950				-.1250	-.1040	-.0870	
.953			-.1270				
.955	-.0320						

MACH (1) = 2.498 BETA (2) = -3.330

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.1700	-.1660	-.0150	.7180	.7280	.7260	.6060
.050				.7320	.8290	.6700	.9190
.081			.4920				
.086		.2750					
.094	.3080						

AMES 67-707 OA12 OEA LOWER WING (RBOL13)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.330

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.6280	.7350	.7780	.8170
.177			.5650				
.229	.3340						
.246		.3870					
.250				.5790	.6590	.7430	.7990
.362	.3580						
.400				.5630	.7400		.7330
.402			.4700				
.497	.3400						
.550				.5300	.6030		
.565			.4470				
.600							.5800
.650						.5600	
.700	.3700				.4430		
.725				.3780			
.750						-.0160	-.0110
.760			.3420				
.775				-.0340	-.0260		
.808			-.0140				
.834	.3140						
.850				-.0950	-.0780	-.0670	
.857			-.0920				
.865	-.0480						
.900	-.0690			-.1160			-.0720
.905			-.1160				
.950				-.1310	-.1140	-.0970	
.953			-.1310				
.965	-.0590						

MACH (1) = 2.498 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1600	-.1840	-.0870	.5470	.5810	.5830	.4770
.050				.6630	.7520	.8010	.8430
.081			.4200				
.086		.2240					
.094	.2620						
.150				.5720	.6790	.7240	.7550
.177			.5070				
.229	.2910						
.246		.3390					
.250				.5270	.6010	.6900	.7460
.362	.3240						
.400				.5190	.6760		.6870
.402			.4340				
.497	.3070						

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AMES 87-707 OA12 02A LOWER WING (RB9L13)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

Y/BW	.299	.384	.427	.534	.673	.780	.887
X/CW							
.550				.4890	.5660		
.565			.4240				
.600							.5480
.650						.5260	
.700	.3470				.4110		
.725				.3610			
.750						-.0260	-.0200
.760			.3310				
.775				-.0380	-.0330		
.808			-.0160				
.834	.2960						
.850				-.0990	-.0840	-.0740	
.857			-.1100				
.865	-.0470						
.900	-.0650			-.1240			-.0810
.905			-.1220				
.950				-.1370	-.1170	-.1030	
.953			-.1340				
.965	-.0740						

MACH (1) = 2.498 BETA (4) = 3.040

Y/BW	299	.384	.427	.534	.673	.780	.887
X/CW							
.000	-.2010	-.2050	-.1420	.3930	.4530	.4410	.3430
.050				.6050	.7080	.7410	.7800
.081			.3610				
.086		.1830					
.094	.2250						
.150				.5250	.6430	.6730	.7020
.177			.4670				
.229	.2570						
.246		.3010					
.250				.4920	.5620	.6370	.6960
.362	.2960						
.400				.4970	.6390		.6360
.402			.4110				
.497	.2920						
.550				.4760	.5360		
.565			.4110				
.600							.5140
.650						.4940	
.700	.3360				.3850		
.725				.3490			
.750						-.0340	-.0210
.760			.3330				
.775				-.0330	-.0390		

AMES 87-707 OA12 C2A LOWER WING (RE3L13)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0080				
.834	.2950						
.850				-.0930	-.0850	-.0830	
.857			-.1030				
.865	-.0430						
.900	-.0530			-.1160			-.0830
.905			-.1150				
.950				-.1330	-.1210	-.1110	
.953			-.1280				
.965	-.0780						

MACH (1) = 2.498 BETA (5) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1980	-.2090	-.1660	.2610	.3260	.3150	.2290
.050				.5360	.6440	.6740	.7080
.081			.3130				
.086		.1530					
.094	.1850						
.150				.4650	.5790	.6190	.6420
.177			.4210				
.229	.2270						
.246		.2680					
.250				.4480	.5110	.5930	.6480
.362	.2750						
.400				.4600	.5870		.5990
.402			.3820				
.497	.2660						
.550				.4500	.5000		
.565			.3860				
.600							.4870
.650						.4630	
.700	.3140				.3610		
.725				.3330			
.750						-.0370	-.0340
.760			.3160				
.775				-.0380	-.0380		
.808			-.0160				
.834	.2800						
.850				-.0970	-.0820	-.0870	
.857			-.1060				
.865	-.0510						
.900	-.0590			-.1230			-.0910
.905			-.1160				
.950				-.1410	-.1190	-.1130	
.953			-.1320				

AMES 67-707 OA12 O2A LOWER WING (RBQL13)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0990						

MACH (2) = 3.502 BETA (1) = -f.710

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0490	-.0340	.2150	1.2640	1.0410	.8610	.7610
.050				.8290	.7760	.8190	.8590
.081			.5670				
.086		.3470					
.094	.3500						
.150				.6890	.7070	.7460	.7550
.177			.6110				
.229	.3700						
.246		.4410					
.250				.6310	.6460	.7040	.7320
.362	.3920						
.400				.6160	.7150		.6860
.402			.4890				
.497	.3540						
.550				.5560	.5900		
.565			.4570				
.600							.5620
.650						.5340	
.700	.3570				.4280		
.725				.3620			
.750						.0230	.0650
.760			.3400				
.775				.0090	.0140		
.808			.0400				
.834	.2870						
.850				-.0450	-.0410	-.0300	
.857			-.0450				
.865	.0080						
.900	-.0230			-.0660			.0080
.905			-.0640				
.950				-.0760	-.0700	-.0530	
.953			-.0760				
.965	-.0200						

MACH (2) = 3.902 BETA (2) = -3.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0680	-.0640	.1060	1.0550	1.0280	.7980	.6560
.050				.7670	.8600	.7710	.6470
.081			.4940				
.086		.2910					
.094	.3070						

AMES 87-707 OA12 OEA LOWER WING (RBQL13)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.302 BETA (2) = -3.440

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.150				.6340	.7640	.7160	.7460
.177			.5410				
.229	.3290						
.246		.3880					
.250				.5750	.6660	.6710	.7250
.362	.3540						
.400				.5580	.7000		.6700
.402			.4390				
.497	.3230						
.550				.5300	.5760		
.565			.4210				
.600							.5470
.650						.5180	
.700	.3270				.4190		
.725				.3620			
.750						.0400	.0340
.760			.3210				
.775				.0140	.0230		
.800			.0340				
.834	.2720						
.850				-.0450	-.0240	-.013	
.857			-.0520				
.935	.0110						
.900	-.0190			-.0640			-.0200
.905			-.0520				
.950				-.0770	-.0540	-.0380	
.953			-.0720				
.965	-.0210						

MACH (2) = 3.302 BETA (3) = -.160

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0840	-.0840	.0210	.8390	.8620	.8650	.5950
.050				.6750	.7920	.8140	.7570
.091			4190				
.096		.2440					
.107	.2590						
.153				.5500	.6940	.7370	.6790
.177			.4740				
.220	.2850						
246		.3370					
.250				.5165	.6020	.6800	.6630
.362	.3190						
.400				.5100	.6750		.6280
.402			.3980				
.497	.2960						

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AMES 87-707 OA12 02A LOWER WING (RBQL13)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.4850	.5690		
.565			.3880				.5090
.600						.4880	
.650					.4220		
.700	.3020			.3360			
.725						.0360	.0280
.750							
.760			.3040				
.775				.0100	.0240		
.808			.0320				
.834	.2590						
.850				-.0430	-.0280	-.0220	
.857			-.0600				
.865	.0100						
.900	-.0180			-.0620			-.0240
.905			-.0620				
.950				-.0750	-.0570	-.0460	
.953			-.0720				
.965	-.0290						

MACH (2) = 3.502 BETA (4) = 3.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0930	-.0960	-.0330	.6550	.6740	.6830	.5970
.050				.5810	.6980	.7270	.7830
.081			.3510				
.086		.2000					
.094	.2190						
.150				.4840	.6110	.6590	.6910
.177			.4130				
.229	.2520						
.246		.2960					
.250				.4480	.5310	.6100	.6750
.362	.2870						
.400				.4430	.6020		.6340
.402			.3580				
.497	.2680						
.550				.4290	.5140		
.565			.3480				
.600							.5190
.650						.4780	
.700	.2780				.3760		
.725				.3060			
.750						.0300	.0270
.760			.2850				
.775				.0040	.0110		

AMES 87-707 OA12 02A LOWER WING (RBQL13)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.0310				
.834	.2490						
.850				-.0450	-.0350	-.0250	
.857			-.0650				
.865	.0080						
.900	-.0140			-.0620			-.0280
.905			-.0610				
.950				-.0780	-.0620	-.0510	
.953			-.0740				
.965	-.0350						

MACH (2) = 3.502 BETA (5) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1010	-.1060	-.0720	.4840	.5140	.5200	.4500
.030				.5000	.6060	.6340	.6930
.081			.2890				
.086		.1620					
.094	.1770						
.150				.4130	.5270	.5770	.6120
.177			.3630				
.229	.2110						
.246		.2500					
.250				.3880	.4590	.5380	.6000
.362	.2500						
.400				.3910	.5310		.5660
.402			.3230				
.497	.2390						
.550				.3830	.4540		
.565			.3230				
.600							.4620
.650						.4220	
.700	.2590				.3340		
.725				.2790			
.750						.0140	.0160
.760			.2670				
.775				.0030	.0070		
.808			.0260				
.834	.2320						
.850				-.0400	-.0350	-.0390	
.857			-.0690				
.865	.0020						
.900	-.0180			-.0620			-.0310
.905			-.0580				
.950				-.0750	-.0630	-.0600	
.953			-.0720				

AMES 87-707 OA12 02A LOWER WING (RB0L13)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = 0.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0490						

AMES 87-707 OA12 02A LOWER WING (RBQL14) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (1) = -6.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0520	.0470	.3360	1.0200	.9520	.9600	.9790
.050				.0350	.0590	.0880	.0980
.081			-.0060				
.086		-.0270					
.094	-.0360						
.150				.0170	.0760	.1090	.1190
.177			.0140				
.229	-.0220						
.246		.0320					
.250				.0140	.0640	.1050	.1350
.362	.0070						
.400				.0370	.0770		.1300
.402			.0000				
.497	-.0070						
.550				.0310	.0460		
.565			-.0100				
.600							.0790
.650						.0270	
.700	-.0320				-.0050		
.725				-.0310			
.750						-.1540	-.1580
.760			-.0550				
.775				-.1690	-.1500		
.808			-.1550				
.834	-.0620						
.850				-.1730	-.1600	-.1670	
.857			-.0400				
.865	-.1600						
.900	-.1740			-.1660			-.1710
.905			-.1610				
.950				-.1650	-.1590	-.1680	
.953			-.1650				
.965	-.1710						

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0190	.0190	.2860	.9060	.8400	.8440	.8510
.050				.0250	.0390	.0620	.0670
.081			.0210				
.086		-.0110					
.094	-.0330						

AMES 67-707 OA12 02A LOWER WING (RBQL14)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0160	.0590	.0820	.0890
.177			.0280				
.229	-.0060						
.246		.0420					
.250				.0280	.0470	.0770	.1010
.362	.0160						
.400				.0400	.0620		.0970
.402			.0020				
.497	.0000						
.550				.0330	.0440		
.565			-.0070				
.600							.0500
.650						.0130	
.700	-.0190				-.0050		
.725				-.0320			
.750						-.1590	-.1640
.760			-.0490				
.775				-.1750	-.1560		
.908			-.1600				
.834	-.0510						
.850				-.1800	-.1670	-.1720	
.857			-.0270				
.865	-.1630						
.900	-.1800			-.1730			-.1760
.905			-.1680				
.950				-.1710	-.1660	-.1710	
.953			-.1720				
.965	-.1780						

MACH (1) = 2.498 BETA (3) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0050	.0320	.2510	.9050	.7330	.7460	.7500
.050				.0310	.0280	.0500	.0500
.081			.0430				
.086		.0040					
.094	-.0170						
.150				.0310	.0520	.0670	.0770
.177			.0450				
.229	.0030						
.246		.0450					
.250				.0320	.0470	.0670	.0870
.362	.0210						
.400				.0410	.0690		.0830
.402			.0090				
.497	.0080						

AMES 67-707 OA12 02A LOWER WING (RBQL14)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (3) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.0290	.0480		
.565			-.0010				
.600							.0420
.650						.0190	
.700	-.0090				-.0030		
.725				-.0300			
.750						-.1600	-.1670
.760			-.0430				
.775				-.1770	-.1600		
.808			-.1620				
.834	-.0410						
.850				-.1810	-.1680	-.1710	
.857			-.0250				
.865	-.1620						
.900	-.1810			-.1810			-.1770
.905			-.1710				
.950				-.1790	-.1680	-.1680	
.953			-.1770				
.965	-.1810						

MACH (1) = 2.498 BETA (4) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0200	-.0150	.2050	.7190	.6560	.6680	.6520
.050				.0490	.0280	.0410	.0380
.081			.0590				
.086		.0070					
.094	-.0110						
.150				.0490	.0600	.0600	.0680
.177			.0610				
.229	.0040						
.246		.0430					
.250				.0450	.0550	.0710	.0780
.362	.0170						
.400				.0440	.0740		.0790
.402			.0170				
.497	.0110						
.550				.0340	.0530		
.565			.0120				
.600							.0430
.650						.0220	
.700	.0010				-.0020		
.725				-.0250			
.750						-.1560	-.1610
.760			-.0310				
.775				-.1690	-.1590		

AMES 67-707 OA12 02A LOWER WING (RB0L14)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.608			-.1590				
.834	-.0260						
.850				-.1740	-.1690	-.1670	
.857			-.0240				
.865	-.1630						
.900	-.1820			-.1740			-.1730
.905			-.1710				
.950				-.1740	-.1680	-.1630	
.953			-.1760				
.965	-.1800						

MACH (1) = 2.498 BETA (5) = 6.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0390	-.0400	.1360	.3200	.5680	.5840	.5770
.050				.0770	.0320	.0390	.0330
.081			.0730				
.086		.0000					
.094	-.0050						
.150				.0620	.0720	.0680	.0740
.177			.0690				
.229	.0070						
.246		.0430					
.250				.0500	.0610	.0780	.0850
.362	.0140						
.400				.0490	.0770		.0870
.402			.0280				
.497	.0120						
.550				.0410	.0510		
.565			.0220				
.600							.0380
.650						.0220	
.700	.0120				-.0010		
.725				-.0180			
.750						-.1580	-.1610
.760			-.0160				
.775				-.1690	-.1590		
.808			-.1540				
.834	-.0160						
.850				-.1750	-.1700	-.1690	
.857			-.0480				
.865	-.1630						
.900	-.1810			-.1730			-.1710
.905			-.1690				
.950				-.1750	-.1690	-.1660	
.953			-.1750				

AMES 87-707 OA12 02A LOWER WING (RB9L14)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.1760						

MACH (2) = 3.503 BETA (1) = -6.670

Y/BW	.299	.364	.427	.554	.673	.780	.887
X/CW							
.000	.0670	.0730	.3770	1.1760	1.1010	1.1670	1.1800
.050				.1070	.1140	.1560	.1630
.081			.0310				
.086		.0030					
.094	-.0070						
.150				.0590	.1040	.1440	.1580
.177			.0240				
.229	-.0180						
.246		.0210					
.250				.0340	.0850	.1300	.1530
.362	-.0070						
.400				.0300	.0960		.1440
.402			.0020				
.497	-.0160						
.550				.0210	.0760		
.565			-.0090				
.600							.1000
.650						.0610	
.700	-.0260				.0280		
.725				-.0260			
.750						-.0810	-.0710
.760			-.0370				
.775				-.1010	-.0860		
.808			-.0880				
.834	-.0450						
.850				-.1290	-.0960	-.0900	
.857			-.0390				
.865	-.0900						
.900	-.0990			-.1050			-.0910
.905			-.1030				
.950				-.1050	-.0910	-.0900	
.953			-.1030				
.965	-.0990						

MACH (2) = 3.503 BETA (2) = -3.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0290	.0320	.2800	.9800	.9280	.9920	.9980
.050				.0870	.0980	.1250	.1440
.081			.0150				
.086		-.0100					
.094	-.0190						

AMES 87-707 OA12 02A LOWER WING (RBQL14)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (2) = -3.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0410	.0870	.1090	.1280
.177			.0130				
.229	-.0120						
.246		.0170					
.250				.0290	.0700	.0970	.1310
.362	.0020						
.400				.0320	.0780		.1190
.402			.0000				
.497	-.0040						
.550				.0250	.0510		
.565			-.0050				
.600							.0750
.650						.0380	
.700	-.0160				.0120		
.725				-.0140			
.750						-.0810	-.0700
.760			-.0330				
.775				-.0830	-.0860		
.808			-.0850				
.834	-.0350						
.850				-.0900	-.0950	-.0890	
.857			-.0090				
.865	-.0900						
.900	-.0990			-.0880			-.0910
.905			-.0850				
.950				-.0380	-.0900	-.0910	
.953			-.0900				
.965	-.0990						

MACH (2) = 3.503 BETA (3) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0000	.0020	.2000	.8150	.7740	.8140	.8120
.050				.0620	.0660	.0850	.1030
.081			.0180				
.086		-.0100					
.094	-.0190						
.150				.0280	.0550	.0760	.0900
.177			.0190				
.229	-.0060						
.246		.0170					
.250				.0190	.0410	.0660	.0890
.362	.0060						
.400				.0250	.0490		.0780
.402			.0010				
.497	-.0010						

AMES 67-707 OA12 O2A LOWER WING (RB01,14)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.0240	.0370		
.565			-.0050				
.600							.0440
.650						.0170	
.700	-.0100				.0040		
.725				-.0190			
.750						-.0870	-.0720
.760			-.0310				
.773				-.0940	-.0900		
.808			-.0920				
.834	-.0310						
.850				-.0960	-.0980	-.0950	
.857			-.0060				
.865	-.0920						
.900	-.0980			-.0960			-.0940
.905			-.0920				
.950				-.0960	-.0940	-.0960	
.953			-.0960				
.965	-.1020						

MACH (2) = 3.503 BETA (4) = 3.180

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0170	-.0140	.1400	.6710	.6410	.6660	.6680
.050				.0500	.0480	.0610	.0700
.081			.0270				
.086		-.0090					
.094	-.0120						
.150				.0210	.0440	.0510	.0620
.177			.0280				
.229	-.0040						
.246		.0170					
.250				.0190	.0300	.0450	.0600
.362	.0030						
.400				.0220	.0400		.0340
.402			.0030				
.497	-.0020						
.550				.0210	.0390		
.565			-.0020				
.600							.0280
.650						.0080	
.700	-.0060				-.0020		
.725				-.0190			
.750						-.0880	-.0730
.760			-.0250				
.775				-.0920	-.0970		

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AMES 87-707 OA12 OEA LOWER WING (RB0L14)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.809			-.0910				
.834	-.0200						
.850				-.0980	-.0960	-.0940	
.857			-.0150				
.865	-.0890						
.900	-.1000			-.0980			-.0960
.905			-.0930				
.950				-.0980	-.0950	-.0960	
.953			-.0980				
.965	-.1020						

MACH (2) = 3.503 BETA (5) = 6.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0300	-.0300	.0730	.5150	.5210	.5470	.5360
.050				.0450	.0380	.0470	.0460
.081			.0270				
.086		-.0120					
.094	-.0140						
.150				.0260	.0360	.0400	.0470
.177			.0240				
.229	-.0090						
.246		.0100					
.250				.0230	.0280	.0380	.0470
.362	-.0010						
.400				.0250	.0390		.0420
.402			.0040				
.497	-.0040						
.550				.0190	.0320		
.565			.0010				
.600							.0170
.650						.0090	
.700	-.0050				-.0010		
.725				-.0150			
.750						-.0880	-.0720
.760			-.0190				
.775				-.0930	-.0830		
.808			-.0900				
.834	-.0180						
.850				-.0960	-.0920	-.0960	
.857			-.0260				
.865	-.0910						
.900	-.1010			-.0960			-.0940
.905			-.0920				
.950				-.0940	-.0910	-.0960	
.953			-.0940				

AMES 67-707 OA12 02A LOWER WING (REQL14)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = 6.520

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.1030						

AMES 67-707 OA12 02A LOWER WING (RBQL15) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0350	-.0170	.3400	1.0520	.9610	.9920	.9620
.050				.4340	.4350	.4560	.4950
.081			.3370				
.086		.1830					
.094	.1710						
.150				.3600	.4260	.4640	.4930
.177			.3290				
.229	.1750						
.246		.2430					
.250				.3210	.3720	.4400	.4770
.362	.1600						
.400				.3030	.3690		.4410
.402			.2290				
.497	.1580						
.550				.2680	.3310		
.565			.1990				
.600							.3290
.650						.2760	
.700	.1430				.2240		
.725				.1490			
.750						-.1350	-.1520
.760			.1130				
.775				-.1420	-.1430		
.808			-.1170				
.834	.0910						
.850				-.1590	-.1610	-.1570	
.857			-.0500				
.865	-.1340						
.900	-.1620			-.1600			-.1610
.905			-.1520				
.950				-.1560	-.1500	-.1570	
.953			-.1580				
.965	-.1580						

MACH (1) = 2.498 BETA (2) = -3.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0810	-.0860	.1970	.8960	.8320	.8670	.8280
.050				.4010	.4190	.4420	.4780
.081			.2960				
.086		.1430					
.094	.1410						

AMES 87-707 OA12 C2A LOWER WING (RBQL15)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.3310	.3920	.4270	.4570
.177			.3090				
.229	.1460						
.246		.2000					
.250				.2920	.3400	.4020	.4390
.362	.1610						
.400				.2760	.3580		.4050
.402			.2110				
.497	.1380						
.550				.2450	.3070		
.565			.1890				
.600							.2970
.650						.2490	
.700	.1410				.1980		
.725				.1370			
.750						-.1480	-.1620
.760			.1080				
.775				-.1540	-.1440		
.808			-.1280				
.834	.0910						
.850				-.1700	-.1650	-.1680	
.857			-.0640				
.865	-.1440						
.900	-.1730			-.1700			-.1680
.905			-.1640				
.950				-.1650	-.1620	-.1680	
.953			-.1690				
.965	-.1730						

MACH (1) = 2.498 BETA (3) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1150	-.1210	.0540	.7470	.7060	.7370	.7100
.050				.3880	.4060	.4300	.4670
.081			.2540				
.086		.1040					
.094	.1120						
.150				.3120	.3650	.3980	.4260
.177			.2710				
.229	.1210						
.246		.1660					
.250				.2760	.3200	.3730	.4110
.362	.1360						
.400				.2590	.3480		.3760
.402			.1960				
.497	.1210						

AMES 67-707 OA12 02A LOWER WING (RB0L15)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.2330	.2870		
.565			.1800				
.600							.2800
.650						.2210	
.700	.1340				.1780		
.725				.1340			
.750						-.1500	-.1590
.760			.1040				
.775				-.1510	-.1390		
.808			-.1380				
.834	.0930						
.850				-.1630	-.1600	-.1650	
.857			-.0550				
.865	-.1490						
.900	-.1780			-.1660			-.1670
.905			-.1460				
.950				-.1670	-.1590	-.1660	
.953			-.1680				
.965	-.1790						

MACH (1) = 2.498 BETA (4) = 3.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1310	-.1390	-.0690	.5980	.5950	.6240	.5910
.050				.3600	.4050	.4180	.4550
.081			.2120				
.086		.0620					
.094	.0860						
.150				.2940	.3530	.3770	.4010
.177			.2460				
.229	.0960						
.246		.1360					
.250				.2580	.3050	.3570	.3920
.362	.1140						
.400				.2510	.3590		.3580
.402			.1850				
.497	.1070						
.550				.2300	.2710		
.565			.1770				
.600							.2670
.650						.2030	
.700	.1350				.1680		
.725				.1360			
.750						-.1420	-.1540
.760			.1120				
.775				-.1790	-.1570		

AMES 67-70T OA12 02A LOWER WING (RBQL15)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1570				
.834	.1010						
.850				-.1860	-.1740	-.1640	
.857			-.0520				
.865	-.1610						
.900	-.1940			-.1820			-.1610
.905			-.1770				
.950				-.1780	-.1770	-.1600	
.953			-.1840				
.965	-.1870						

MACH (1) = 2.498 BETA (5) = 6.270

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550	-.1450	-.1620	-.1450	.4420	.4720	.4990	.4700
.600				.3430	.3880	.4010	.4350
.642			.1730				
.687		.1480					
.694	.0610						
.750				.2720	.3290	.3530	.3740
.787			.2240				
.829	.0820						
.846		.1130					
.850				.2390	.2800	.3290	.3630
.862	.1040						
.900				.2340	.3340		.3320
.902			.1760				
.897	.0970						
.950				.2160	.2520		
.965			.1730				
.000							.2520
.050						.1940	
.700	.1300				.1570		
.725				.1290			
.750						-.1530	-.1490
.760			.1120				
.775				-.1830	-.1700		
.808			-.1600				
.834	.0990						
.850				-.1880	-.1840	-.1700	
.857			-.0740				
.865	-.1630						
.900	-.1970			-.1880			-.1610
.905			-.1860				
.950				-.1830	-.1850	-.1760	
.953			-.1920				

AMES 87-707 OA12 02A LOWER WING (RBQL15)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.1770						

MACH (2) = 3.503 BETA (1) = -6.750

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0070	.0330	.4170	1.2650	1.1830	1.0350	.9360
.050				.4230	.3810	.3560	.3580
.081			.3080				
.086		.1700					
.094	.1520						
.150				.3350	.3950	.3770	.3640
.177			.3100				
.229	.1550						
.246		.2140					
.250				.3040	.3540	.3690	.3680
.362	.1650						
.400				.2880	.3870		.3640
.402			.2060				
.497	.1350						
.550				.2590	.3080		
.565			.1810				
.600							.2980
.650						.2470	
.700	.1250				.2100		
.725				.1520			
.750						-.0750	-.0760
.760			.1100				
.775				-.0740	-.0770		
.808			-.0650				
.834	.0800						
.850				-.0850	-.0920	-.0900	
.857			-.0340				
.865	-.0740						
.900	-.0950			-.0870			-.0890
.905			-.0840				
.950				-.0860	-.0900	-.0900	
.953			-.0880				
.965	-.0950						

MACH (2) = 3.503 BETA (2) = -3.460

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0390	-.0190	.2670	1.0730	1.0150	1.0450	.9830
.050				.3810	.3520	.3720	.3580
.081			.2640				
.086		.1380					
.094	.1250						

AMES 87-707 OA12 02A LOWER WING (R8QL15)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (2) = -3.460

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.3020	.3540	.3730	.3650
.177			.2600				
.229	.1340						
.246		.1810					
.250				.2720	.3150	.3590	.3700
.362	.1450						
.400				.2620	.3530		.3570
.402			.1880				
.497	.1230						
.550				.2340	.2860		
.565			.1690				
.600							.2880
.650						.2350	
.700	.1130				.1970		
.725				.1360			
.750						-.0700	-.0740
.760			.1040				
.775				-.0800	-.0720		
.808			-.0680				
.834	.0790						
.850				-.0890	-.0860	-.0870	
.857			-.0300				
.865	-.0720						
.900	-.0950			-.0900			-.0880
.905			-.0870				
.950				-.0880	-.0880	-.0880	
.953			-.0880				
.965	-.0970						

MACH (2) = 3.503 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0660	-.0630	.1090	.8770	.8450	.8630	.8170
.050				.3500	.3310	.3310	.3470
.081			.2170				
.088		.1000					
.094	.0960						
.150				.2670	.3150	.3350	.3490
.177			.2030				
.229	.1050						
.246		.1430					
.250				.2420	.2790	.3180	.3470
.362	.1200						
.400				.2350	.3210		.3280
.402			.1630				
.497	.1050						

AMES 87-707 OA12 OEA LOWER WING (RBQL15)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.2110	.2530		
.565			.1480				
.600							.2610
.650						.2000	
.700	.1000				.1660		
.725				.1190			
.750						-.0770	-.0780
.760			.0930				
.775				-.0890	-.0810		
.808			-.0760				
.834	.0730						
.850				-.0960	-.0950	-.0930	
.857			-.0340				
.865	-.0810						
.900	-.1010			-.0960			-.0950
.905			-.0930				
.950				-.0960	-.0950	-.0960	
.953			-.0960				
.965	-.1050						

MACH (2) = 3.503 BETA (4) = 3.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0750	-.0850	-.0010	.6750	.6790	.7010	.6620
.050				.3080	.3130	.3160	.3330
.081			.1720				
.086		.0690					
.094	.0730						
.150				.2340	.2890	.3080	.3220
.177			.1890				
.229	.0860						
.246		.1140					
.250				.2090	.2460	.2890	.3160
.362	.1040						
.400				.2010	.2820		.3000
.402			.1420				
.497	.0930						
.550				.1880	.2260		
.565			.1350				
.600							.2350
.650						.1750	
.700	.1010				.1460		
.725				.1070			
.750						-.0760	-.0750
.760			.0900				
.775				-.0910	-.0800		

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AMES 67-707 OA12 02A LOWER WING (RBQL15)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0780				
.834	.0780						
.850				-.0980	-.0910	-.0930	
.857			-.0410				
.865	-.0780						
.900	-.1000			-.0990			-.0890
.905			-.0930				
.950				-.0970	-.0930	-.0930	
.953			-.0980				
.965	-.1020						

MACH (2) = 3.503 BETA (5) = 6.430

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0850	-.1000	-.0710	.4910	.5310	.5570	.5260
.050				.2610	.2880	.2940	.3120
.081			.1190				
.086		.0370					
.094	.0420						
.150				.1960	.2520	.2740	.2900
.177			.1540				
.229	.0580						
.246		.0830					
.250				.1750	.2130	.2530	.2800
.362	.0780						
.400				.1700	.2480		.2650
.402			.1240				
.497	.0720						
.550				.1590	.2000		
.565			.1200				
.600							.2020
.650						.1530	
.700	.0870				.1230		
.725				.0970			
.750						-.0830	-.0800
.760			.0830				
.775				-.0950	-.0830		
.808			-.0810				
.834	.0690						
.850				-.1030	-.0960	-.0940	
.857			-.0500				
.865	-.0800						
.900	-.1040			-.1010			-.0950
.905			-.0990				
.950				-.1020	-.0970	-.0960	
.953			-.1030				

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AMES 87-707 OA12 02A LOWER WING (RB0L15)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (5) = 6.430

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.1010						

AMES 87-707 OA12 02A LOWER WING (RBQL16) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -5.490

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1390	-.1350	.0690	.8900	.8760	.8730	.7650
.050				.8000	.8990	.9360	.9920
.081			.5600				
.086		.3340					
.094	.3580						
.150				.6950	.8000	.8410	.8960
.177			.6180				
.229	.3740						
.246		.4430					
.250				.6370	.7250	.8070	.8610
.362	.3950						
.400				.6130	.8230		.7900
.402			.5060				
.497	.3730						
.550				.5710	.6440		
.565			.4810				
.600							.6190
.650						.5270	
.700	.3910				.4740		
.725				.4100			
.750						-.1300	-.1630
.760			.3510				
.775				-.1520	-.1320		
.808			-.1100				
.834	.3210						
.850				-.1680	-.1500	-.1530	
.857			-.0790				
.865	-.1300						
.900	-.1750			-.1590			-.1560
.905			-.1600				
.950				-.1470	-.1460	-.1540	
.953			-.1620				
.965	-.1210						

MACH (1) = 2.498 BETA (2) = -3.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1710	-.1660	-.0180	.7150	.7240	.7240	.6210
.050				.7330	.8310	.8710	.9190
.081			.4940				
.086		.2740					
.094	.3090						

AMES 67-707 OA12 02A LOWER WING (RBGL16)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.6320	.7330	.7760	.8170
.177			.5650				
.229	.3360						
.246		.3820					
.250				.5820	.6630	.7430	.7960
.362	.3630						
.400				.5670	.7540		.7340
.402			.4710				
.497	.3390						
.550				.5330	.5980		
.565			.4520				
.600							.5870
.650						.4940	
.700	.3690				.4350		
.725				.3830			
.750						-.1350	-.1650
.760			.3330				
.775				-.1540	-.1450		
.808			-.1170				
.834	.3140						
.850				-.1850	-.1620	-.1640	
.857			-.0870				
.865	-.1300						
.900	-.1790			-.1840			-.1640
.905			-.1740				
.950				-.1800	-.1640	-.1630	
.953			-.1770				
.965	-.1500						

MACH (1) = 2.498 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1950	.1950	-.0960	.5420	.5740	.5760	.4850
.050				.6700	.7580	.8030	.8460
.081			.4230				
.086		.2260					
.094	.2640						
.150				.5780	.6810	.7220	.7570
.177			.5110				
.229	.2940						
.246		.3410					
.250				.5320	.6020	.6910	.7460
.362	.3260						
.400				.5250	.6910		.6980
.402			.4350				
.497	.3120						

AMES 87-707 OA12 02A LOWER WING (RBOL16)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.4940	.5640		
.565			.4260				
.600							.5540
.650						.4660	
.700	.3500				.4100		
.725				.3620			
.750						-.1350	-.1640
.760			.3200				
.775				-.1520	-.1440		
.808			-.1180				
.834	.2980						
.850				-.1890	-.1650	-.1700	
.857			-.0950				
.865	-.1300						
.900	-.1800			-.1840			-.1640
.905			-.1800				
.950				-.1830	-.1660	-.1680	
.953			-.1810				
.965	-.1710						

MACH (1) = 2.498 BETA (4) = 3.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1930	-.2000	-.1350	.3940	.4560	.4450	.3680
.050				.6080	.7130	.7450	.7820
.081			.3580				
.086		.1780					
.094	.2250						
.150				.5260	.6430	.6750	.7060
.177			.4610				
.223	.2560						
.246		.2980					
.250				.4940	.5650	.6410	.6990
.362	.2920						
.400				.4990	.6530		.6390
.402			.4110				
.497	.2870						
.550				.4780	.5340		
.565			.4110				
.600							.5200
.650						.4380	
.700	.3360				.3840		
.725				.3490			
.750						-.1390	-.1660
.760			.3190				
.775				-.1550	-.1480		

AMES 87-707 OA12 O2A LOWER WING (RBQL16)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1140				
.834	.2950						
.850				-.1920	-.1780	-.1760	
.857			-.0970				
.865	-.1290						
.900	-.1780			-.1870			-.1720
.905			-.1810				
.950				-.1850	-.1750	-.1740	
.953			-.1820				
.965	-.1840						

MACH (1) = 2.498 BETA (5) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2070	-.2160	-.1750	.2520	.3170	.3050	.2350
.050				.5380	.6460	.6740	.7060
.081			.3160				
.086		.1570					
.094	.1850						
.150				.4700	.5790	.6180	.6400
.177			.4260				
.229	.2310						
.246		.2730					
.250				.4500	.5150	.5920	.6500
.362	.2780						
.400				.4630	.5990		.5990
.402			.3880				
.497	.2720						
.550				.4480	.4960		
.555			.3910				
.600							.4870
.650						.4100	
.700	.3190				.3600		
.725				.3250			
.750						-.1430	-.1670
.760			.3120				
.775				-.1640	-.1500		
.808			-.1160				
.834	.2820						
.850				-.2000	-.1850	-.1700	
.857			-.1100				
.865	-.1300						
.900	-.1830			-.1920			-.1710
.905			-.1970				
.950				-.1940	-.1760	-.1720	
.953			-.1980				

AMES 87-707 OA12 O2A LOWER WING (RBQL16)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.1900						

MACH (2) = 3.503 BETA (1) = -6.720

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0530	-.0360	.2130	1.2620	1.0390	.8570	.7730
.050				.8320	.7820	.8260	.8700
.081			.5660				
.086		.3460					
.094	.3490						
.150				.6950	.7120	.7580	.7700
.177			.6150				
.229	.3690						
.246		.4380					
.250				.6380	.6490	.7150	.7450
.362	.3920						
.400				.6230	.7290		.6970
.402			.4840				
.497	.3530						
.550				.5600	.5980		
.565			.4550				
.600							.5770
.650						.4780	
.700	.3560				.4380		
.725				.3760			
.750						-.0420	-.0570
.760			.3230				
.775				-.0640	-.0500		
.808			-.0360				
.834	.2850						
.850				-.0800	-.0800	-.0800	
.857			-.0330				
.355	-.0460						
.900	-.0470			-.0830			-.0730
.905			-.0790				
.950				-.0810	-.0800	-.0820	
.958			-.0830				
.965	-.0830						

MACH (2) = 3.503 BETA (2) = -3.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0800	-.0720	.0950	1.0500	1.0220	.7900	.6550
.050				.7690	.8640	.7680	.8440
.081			.4930				
.086		.2900					
.094	.3050						

AMES 87-707 OA12 O2A LOWER WING (RBQL16)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (2) = -3.440

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.867
.150				.6370	.7680	.7120	.7450
.177			.5390				
.229	.3260						
.246		.3670					
.250				.5810	.6690	.6680	.7220
.362	.3520						
.400				.5630	.7120		.6670
.402			.4390				
.497	.3220						
.550				.5350	.5690		
.565			.4200				
.600							.5450
.650						.4530	
.700	.3260				.4110		
.725				.3750			
.750						-.0450	-.0610
.760			.3110				
.775				-.0660	-.0540		
.808			-.0340				
.834	.2710						
.850				-.0910	-.0890	-.0870	
.857			-.0420				
.865	-.0480						
.900	-.0920			-.0900			-.0750
.905			-.0830				
.950				-.0920	-.0890	-.0840	
.953			-.0890				
.965	-.0850						

MACH (2) = 3.503 BETA (3) = -.160

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.867
.000	-.0850	-.0840	.0210	.8410	.8610	.8640	.6040
.050				.6810	.7970	.8150	.7550
.081			.4160				
.086		.2440					
.094	.2600						
.150				.5670	.6990	.7340	.6780
.177			.4720				
.229	.2890						
.246		.3370					
.250				.5220	.6070	.6780	.6590
.362	.3190						
.400				.5150	.6870		.6230
.402			.3970				
.497	.2960						

AMES 67-707 OA12 O2A LOWER WING (RBQL16)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.4910	.5640		
.565			.3860				
.600							.5110
.650						.4290	
.700	.3010				.4150		
.725				.3480			
.750						-.0490	-.0650
.760			.2930				
.775				-.0650	-.0550		
.808			-.0430				
.834	.2570						
.850				-.0980	-.0970	-.0930	
.857			-.0390				
.865	-.0480						
.900	-.0920			-.0930			-.0770
.905			-.0870				
.950				-.0930	-.0940	-.0890	
.953			-.0910				
.965	-.0920						

MACH (2) = 3.503 BETA (4) = 3.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0990	-.1040	-.0430	.6510	.6710	.6800	.6080
.050				.5910	.7060	.7310	.7850
.081			.3550				
.086		.2030					
.094	.2240						
.150				.4920	.6220	.6600	.6900
.177			.4170				
.229	.2530						
.246		.2970					
.250				.4570	.5400	.6090	.6720
.362	.2880						
.400				.4550	.6200		.6330
.402			.3610				
.497	.2690						
.550				.4390	.5090		
.565			.3500				
.600							.5230
.650						.4250	
.700	.2820				.3740		
.725				.3180			
.750						-.0480	-.0640
.760			.2770				
.775				-.0670	-.0570		

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AMES 87-707 OA12 O2A LOWER WING (RBQL16)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0390				
.834	.2510			-.0970	-.0950	-.0930	
.850			-.0480				
.857							
.865	-.0430			-.0950			-.0820
.900	-.0870		-.0920				
.905				-.0940	-.0930	-.0910	
.950			-.0920				
.953							
.965	-.0940						

MACH (2) = 3.503 BETA (5) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0950	-.1020	-.0690	.4850	.5140	.5230	.4650
.050				.5120	.6170	.6590	.6920
.081			.2930				
.086		.1650					
.094	.1820						
.150				.4240	.5420	.5770	.6120
.177			.3660				
.229	.2130						
.246		.2530					
.250				.4000	.4700	.5380	.5970
.362	.2510						
.400				.4020	.5510		.5630
.402			.3270				
.497	.2420						
.550				.3950	.4520		
.565			.3230				
.600							.4700
.650						.3760	
.700	.2620				.3310		
.725				.2880			
.750						-.0540	-.0660
.760			.2590				
.775				-.0660	-.0610		
.808			-.0430				
.834	.2370						
.850				-.0950	-.0970	-.0960	
.857			-.0530				
.865	-.0470						
.900	-.0900			-.1010			-.0870
.905			-.0940				
.950				-.0960	-.0970	-.0950	
.953			-.0960				

AMES 67-707 OA12 OA LOWER WING (RBQL16)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = 6.470

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.965	-.1020						

AMES 67-707 OA12 02A LOWER WING (RBQL17) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = 15.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1590	-.1560	-.0490	.6670	.6660	.6810	.6250
.050				.5280	.5910	.6290	.6720
.081			.3230				
.086		.1480					
.094	.1730						
.150				.4410	.5310	.5600	.5680
.177			.3730				
.229	.1910						
.246		.2300					
.250				.4010	.4540	.5270	.5730
.362	.2110						
.400				.3840	.5320		.5570
.402			.2940				
.497	.1860						
.550				.3570	.3870		
.555			.2810				
.600							.4140
.650						.3670	
.700	.2180				.2770		
.725				.2300			
.750						.2140	.2770
.760			.0000				
.775				.1900	.2150		
.808			.1380				
.834	.1740						
.850				.1300	.1580	.1930	
.857			.0000				
.865	.1330						
.300	.1210			.0870			.1640
.905			.0880				
.950				.0510	.0890	.1190	
.953			.0600				
.965	.0830						

MACH (1) = 2.498 ALPHA (2) = 20.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1830	-.1370	-.0450	.5700	.5980	.5880	.5060
.050				.5670	.7640	.8020	.8450
.081			.3980				
.086		.2020					
.094	.2130						

AMES 67-70T CM12 WBA WING (REVL17)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (2) = 20.250	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.150				.5760	.3950	.7230	.7470
	.177			.4770				
	.229	.2680						
	.246		.3120					
	.250				.5350	.6020	.6900	.7490
	.362	.3010						
	.400				.5320	.6990		.7260
	.402			.4110				
	.497	.2710						
	.550				.4990	.5190		
	.565			.3980				
	.600							.5550
	.650						.5070	
	.700	.3230				.3990		
	.725				.3560			
	.750						.3250	.3930
	.760			.0000				
	.775				.3110	.3250		
	.808			.2270				
	.834	.2690						
	.850				.2370	.2630	.3010	
	.857			.0000				
	.865	.2200						
	.900	.2020			.1840			.2600
	.905			.1840				
	.950				.1510	.1790	.2000	
	.953			.1530				
	.965	.1540						

MACH (1) = 2.498 ALPHA (3) = 25.180	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.1870	-.1920	-.0990	.4700	.5170	.4780	.3720
	.050				.8000	.9270	.9570	.9940
	.081			.5090				
	.086		.2910					
	.094	.3430						
	.150				.7160	.8750	.8830	.9340
	.177			.6250				
	.229	.3880						
	.246		.4320					
	.250				.6830	.7600	.8550	.9210
	.362	.4310						
	.400				.6850	.8690		.8920
	.402			.5620				
	.497	.4010						

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AMES 67-7C7 GA12 C2A LOWER WING

DEPENDENT VARIABLE CP

SECTION (1):LOWER WING

MACH (1) = 2.498 ALPHA (3) = 25.180

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.6550	.6640		
.565			.5600				.6970
.600						.6550	
.650					.5330		
.700	.4720			.4960			
.725						.4420	.5160
.750			.0000				
.760				.4490	.4540		
.775			.3650				
.808							
.834	.4130			.3570	.3820	.4140	
.850			.0000				
.857							
.865	.3520						.3730
.900	.3310			.2960			
.905			.2980				
.950				.2600	.2680	.3130	
.953			.2620				
.965	.2760						

MACH (1) = 2.498 ALPHA (4) = 30.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1920	-.1910	-.1070	.3790	.4230	.3540	.2280
.050				.9320	1.0850	1.0950	1.1330
.081			.6310				
.085		.3900					
.094	.4520			.8790	1.0320	1.0500	1.1450
.150							
.177			.7835				
.229	.5040						
.245		.5660		.8470	.9390	1.0420	1.0930
.250							
.362	.5650			.8600	1.0380		1.0810
.400							
.402			.7370				
.497	.5450			.8240	.8140		
.550							
.565			.7360				.8300
.600						.8040	
.650					.6760		
.700	.6390			.6480			
.725						.5700	.6520
.750							
.760			.0000				
.775				.6000	.5980		

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A LOWER WING (RBGL17)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (4) = 30.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.5180				
.834	.5740						
.850				.4900	.5190	.5440	
.857			.0000				
.865	.4990						
.900	.4780			.4230			.4910
.905			.4270				
.950				.3820	.4130	.4410	
.953			.3850				
.965	.4150						

MACH (1) = 2.498 ALPHA (5) = 35.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.6630	.7950	1.4630	1.4970	1.3540	1.1360	1.3810
.050				1.0650	1.2080	1.2200	1.2420
.081			.7500				
.086		.4800					
.094	.5510						
.150				1.0480	1.1820	1.2260	1.2830
.177			.9450				
.229	.6220						
.246		.6920					
.250				1.0170	1.1140	1.2200	1.2400
.362	.7060						
.400				1.0420	1.1860		1.1890
.402			.9150				
.497	.6990						
.550				.9970	.9610		
.565			.9103				
.600							.9570
.650						.9650	
.700	.8170				.8210		
.725				.7970			
.750						.7150	.7760
.760			.0000				
.775				.7460	.7430		
.808			.6700				
.834	.7360						
.850				.6210	.6680	.6810	
.857			.0000				
.865	.6490						
.900	.6420			.5500			.6000
.905			.5660				
.950				.5080	.5420	.5610	
.953			.5220				

AMES 67-737 OA12 02A LOWER WING (RBQL17)

SECTION (1) LOWER W... DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (5) = 35.290	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.965	.5670						
MACH (1) = 2.498 ALPHA (6) = 38.670	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.1920	-.1900	-.1170	.2170	.2160	.1350	.0150
	.050				1.1420	1.2790	1.2870	1.3140
	.081			.8410				
	.086		.5550					
	.094	.6310						
	.150				1.1610	1.2740	1.3260	1.3790
	.177			1.0660				
	.229	.7220						
	.246		.7910					
	.250				1.1280	1.2360	1.3120	1.3340
	.362	.8160						
	.400				1.1720	1.2780		1.2380
	.402			1.0370				
	.497	.8170						
	.550				1.1100	1.0670		
	.565			1.0460				
	.600							1.0100
	.650						1.0490	
	.700	.9480				.9250		
	.725				.8950			
	.750						.7980	.8250
	.760			.0000				
	.775				.8550	.8370		
	.808			.7820				
	.834	.8630						
	.850				.7210	.7580	.7500	
	.857			.0000				
	.865	.7760						
	.900	.7780			.6540			.6490
	.905			.6880				
	.950				.6190	.6210	.6220	
	.953			.6460				
	.965	.6860						
MACH (2) = 3.501 ALPHA (1) = 15.160	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.0860	-.0860	.0440	.8760	.8670	.8790	.7970
	.050				.5180	.5620	.5760	.6190
	.081			.3080				
	.086		.1560					
	.094	.1730						

AMES 87-707 OA12 O2A LOWER WING (RB9L17)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (1) = 15.160

Y/BW	.299	.364	.427	.534	.673	.780	.867
X/CW							
.150				.4120	.5250	.5330	.5940
.177			.3320				
.229	.1760						
.246		.2240					
.250				.3750	.4810	.4950	.5420
.362	.2010						
.400				.3610	.4960		.5320
.402			.2600				
.497	.2020						
.550				.3380	.3730		
.565			.2440				
.600							.3940
.650						.3600	
.700	.1830				.2820		
.725				.2190			
.750						.2200	.2670
.760			.0000				
.775				.1800	.2170		
.808			.1280				
.834	.1450						
.850				.1310	.1610	.1950	
.857			.0000				
.865	.1130						
.900	.1000			.0950			.1710
.905			.0910				
.950				.0690	.0910	.1310	
.953			.0670				
.965	.0740						

MACH (2) = 3.501 ALPHA (2) = 20.230

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0860	-.0850	.0240	.8480	.8660	.8720	.5930
.050				.6730	.7950	.8290	.7760
.081			.4080				
.086		.2280					
.094	.2530						
.150				.5610	.7220	.7500	.7270
.177			.4650				
.229	.2740						
.246		.3250					
.250				.5190	.6040	.7000	.6740
.362	.3060						
.400				.5100	.7050		.6580
.402			.3960				
.497	.2860						

(RBQL17)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (2) = 20.230	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.550				.4870	.5280		
	.565			.3760				
	.600							.5350
	.650						.4850	
	.700	.2790				.4100		
	.725				.3390			
	.750						.3140	.3750
	.760			.0000				
	.775				.2900	.3290		
	.808			.3210				
	.834	.2430						
	.850				.2200	.2600	.2890	
	.857			.2000				
	.865	.2010						
	.900	.1860			.1730			.2550
	.905			.1670				
	.950				.1390	.1690	.2110	
	.953			.1360				
	.965	.1490						
MACH (2) = 3.501 ALPHA (3) = 25.240	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.0930	-.0880	.0090	.7850	.8010	.7660	.4370
	.050				.8510	1.0060	1.0370	.9050
	.081			.5330				
	.086		.3290					
	.094	.3720						
	.150				.7310	.9290	.8750	.9150
	.177			.6220				
	.229	.4000						
	.246		.4560					
	.250				.6850	.7840	.8000	.6250
	.362	.4450						
	.400				.6780	.9000		.8030
	.402			.5480				
	.497	.4110						
	.550				.6540	.6970		
	.565			.5370				
	.600							.6540
	.650						.6180	
	.700	.4320				.5390		
	.725				.4890			
	.750						.3970	.4910
	.760			.0000				
	.775				.4350	.4390		

AMES 87-707 OA12 OBA LOWER WING (REGL17)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (3) = 25.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.3550				
.834	.3810						
.850				.3470	.3560	.3810	
.857			.0000				
.865	.3300						
.900	.3120			.2850			.3510
.905			.2790				
.950				.2440	.2600	.2860	
.953			.2430				
.965	.2640						

MACH (2) = 3.501 ALPHA (4) = 30.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0930	-.0900	.0010	.6710	.6930	.6320	.3230
.050				.9940	1.1830	1.1910	1.0030
.081			.6450				
.086		.4230					
.094	.4620						
.150				.8910	1.1150	1.0380	1.0010
.177			.7700				
.229	.5140						
.246		.5790					
.250				.6430	.9530	.9630	.3740
.362	.5730						
.400				.8450	1.0820		.9520
.402			.7060				
.497	.5410						
.550				.8160	.8390		
.565			.6960				
.600							.7880
.650						.7580	
.700	.5850				.6670		
.725				.6360			
.750						.5080	.6140
.760			.0000				
.775				.5810	.5630		
.808			.4920				
.834	.5290						
.850				.4810	.4780	.4940	
.857			.0000				
.865	.4850						
.900	.4470			.4080			.4580
.905			.4040				
.950				.3550	.3690	.3850	
.953			.3600				

AMES 87-707 CA12 02A LOWER WING (RB8L17)

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (4) = 30.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.3540						

MACH (2) = 3.501 ALPHA (5) = 35.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0930	-.0890	-.0050	.5460	.5670	.4690	.2160
.050				1.1320	1.3290	1.2980	1.1200
.081			.7680				
.086		.5180					
.094	.5570						
.150				1.0460	1.2520	1.2100	1.2190
.177			.9330				
.229	.6360						
.246		.7070					
.250				1.0100	1.1340	1.1510	1.1340
.362	.7120						
.400				1.0250	1.2610		1.1050
.402			.8820				
.497	.6870						
.550				.9960	.9830		
.565			.8760				
.600							.9310
.650						.9100	
.700	.7590				.8090		
.725				.8000			
.750						.6380	.7410
.760			.0000				
.775				.7350	.7080		
.808			.6540				
.834	.7010						
.850				.6190	.6140	.6240	
.857			.0000				
.865	.6330						
.900	.5970			.5390			.3730
.905			.5510				
.950				.4920	.5040	.5140	
.953			.4980				
.965	.5260						

MACH (2) = 3.501 ALPHA (6) = 38.630

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0940	-.0850	-.0050	.4670	.4760	.3610	.1490
.050				1.2070	1.4000	1.3700	1.1850
.081			.8530				
.086		.5860					
.094	.6440						

AMES 87-707 OA12 O2A LOWER WING (RBQL17)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (6) = 38.630

Y/BW	.299	.354	.427	.534	.673	.760	.897
X/CW							
.150				1.[illegible]10	1.3380	1.3150	1.3210
.177			1.0520				
.229	.7250						
.246		.7990					
.250				1.1190	1.2490	1.2730	1.2360
.362	.8070						
.400				1.1470	1.3340		1.2120
.402			1.0040				
.497	.7930						
.550				1.1160	1.0770		
.565			1.0050				
.600							1.0110
.650						1.0070	
.700	.8870				.8930		
.725				.8990			
.750						.7295	.8190
.760			.0000				
.775				.8460	.8050		
.808			.7690				
.834	.8170						
.850				.7180	.7130	.7140	
.857			.0000				
.865	.7330						
.900	.7050			.6320			.6410
.905			.6460				
.950				.5820	.5840	.7000	
.953			.5930				
.965	.6270						

(RBQL18) (16 MAY 73)

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.2000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

Y/BW	.199	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1680	-.1640	-.0150	.6460	.6700	.5820	.4200
.050				1.1180	1.2690	1.2990	1.3000
.081			.8090				
.086		.5240					
.094	.5750						
.150				1.0250	1.1770	1.2170	1.2370
.177			.9600				
.229	.6260						
.246		.6870					
.255				.9740	1.0780	1.2200	1.1790
.362	.6650						
.400				.9630	1.1920		1.0870
.402			.8470				
.497	.6400						
.550				.9070	.9290		
.565			.8140				
.600							.8520
.650						.8650	
.700	.7160				.7420		
.725				.7180			
.750						.5920	.6500
.760			.0000				
.775				.6610	.6450		
.808			.5760				
.834	.6310						
.850				.5360	.5550	.5590	
.857			.0000				
.865	.5470						
.900	.5200			.4640			.4870
.905			.4610				
.950				.4250	.4350	.4390	
.953			.4160				
.965	.4500						

MACH (1) = 2.498 BETA (2) = -3.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1830	-.1770	-.0630	.5020	.5470	.4640	.3190
.050				1.0230	1.1740	1.1910	1.2410
.081			.7220				
.086		.4590					
.094	.5170						

AMES 87-707 OA12 O2A LOWER WING (RBQL18)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.493 BETA (2) = -3.310

Y/BW	.299	.354	.427	.534	.673	.780	.887
X/CW							
.120				.9480	1.1040	1.1260	1.2120
.171			.8670				
.229	.5720						
.245		.8230					
.250				.9060	1.0030	1.1120	1.1770
.362	.6170						
.400				.9140	1.1040		1.1130
.472			.7960				
.487	.5040						
.500				.8580	.8550		
585			.7750				
.670							.8530
.693						.8510	
.700	.6760				.7110		
.723				.6900			
.750						.5910	.6530
790			.0060				
.775				.5260	.6290		
.8 8			.5570				
.874	.5110						
.8 1				.5110	.5470	.5600	
.907			.0000				
.935	.3210						
.9 7	.5070			.4450			.4880
.905			.1417				
950				.4020	.4210	.4470	
973			.3960				
.910	.4410						

MACH (1) = 2.498 BETA (3) = -.130

Y/BW	.209	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1910	-.1910	-.1060	.3730	.4200	.3500	.2250
.050				.9350	1.0830	1.0980	1.1330
.081			.6460				
.086		.4090					
.094	.4680						
.150				.8600	1.0310	1.0540	1.1400
.177			.7970				
.225	.5240						
.246		.3810					
.250				.8480	.9370	1.0440	1.0940
.362	.5940						
.400				.8610	1.0370		1.0590
.402			.7530				
.497	.5640						

AMES 87-707 CA12 02A LOWER WING (RBGL1A)

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.120

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.8250	.8080		
.565			.7510				
.600							.8340
.650						.8080	
.700	.6540				.6790		
.725				.6480			
.750						.5750	.6530
.760			.0000				
.775				.5990	.6010		
.808			.5340				
.834	.5910						
.850				.4890	.5200	.5480	
.857			.0000				
.865	.5160						
.900	.4960			.4240			.4940
.905			.4280				
.950				.3830	.4180	.4410	
.953			.3860				
.965	.4340						

MACH (1) = 2.498 BETA (4) = 3.060

Y/BW	.299	.364	.427	.534	.573	.780	.887
X/CW							
.000	-.2050	-.2050	-.1440	.2550	.3030	.2380	.1360
.050				.8340	.9930	1.0110	1.0460
.081			.5700				
.086		.3500					
.094	.4140						
.150				.7960	.9620	.9840	1.0650
.177			.7290				
.229	.4740						
.246		.5250					
.250				.7880	.8800	.9800	1.0310
.362	.5410						
.400				.8160	.9770		1.0020
.402			.7070				
.497	.5280						
.550				.7910	.7710		
.565			.7180				
.600							.7920
.650						.7730	
.700	.6200				.6470		
.725				.6180			
.750						.5520	.6250
.760			.0000				
.775				.5780	.5790		

AMES 87-707 OA12 02A LOWER WING (RBGL16)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.5200				
.834	.5700						
.850				.4760	.5040	.5270	
.857			.0000				
.865	.5000						
.900	.4030			.4050			.4730
.905			.4190				
.950				.3670	.4010	.4270	
.953			.3740				
.965	.4300						

MACH (1) = 2.498 BETA (5) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2010	-.2030	-.1600	.1640	.1990	.1460	.[illegible]550
.050				.7730	.9040	.9220	.9440
.081			.5160				
.086		.3160					
.094	.3610						
.150				.7530	.8950	.9170	[illegible]940
.177			.6820				
.229	.4320						
.246		.4870					
.250				.7470	.8250	[illegible]	.9620
.362	.5100						
.400				.7840	[illegible]		.9420
.402			.6700				
.497	.5030						
.550				.7610	.7320		
.565			.6900				
.600							.7510
.650						.7290	
.700	.5970				.6190		
.725				.5970			
.750						.5290	.5960
.760			.0000				
.775				.5620	.5520		
.808			.5010				
.834	.5510						
.850				.4700	.4940	.5110	
.857			.0000				
.865	.4910						
.900	.4900			.4020			.4530
.905			.4240				
.950				.3600	.3860	.4150	
.953			.3850				

AMES 87-707 OA12 O2A LOWER WING (PBQL18)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.4330						

MACH (2) = 3.501 BETA (1) = -6.700

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0760	-.0590	.1080	.9920	.9070	.5460	.4240
.050				1.1850	1.2620	1.1450	1.2060
.081			.8100				
.086		.5340					
.094	.5700						
.150				1.0500	1.1250	1.0880	1.1830
.177			.9140				
.229	.6120						
.246		.6870					
.250				.9830	.9600	1.0330	1.0990
.362	.6570						
.400				.9660	1.0910		1.0510
.402			.7890				
.497	.6070						
.550				.8900	.8480		
.565			.7670				
.600							.8410
.650						.8190	
.700	.6280				.6960		
.725				.6520			
.750						.5580	.6460
.760			.0000				
.775				.5830	.5840		
.808			.5220				
.834	.5480						
.850				.4820	.5040	.5440	
.857			.0000				
.865	.4780						
.900	.4600			.4090			.4900
.905			.4060				
.950				.3630	.3860	.4280	
.953			.3510				
.965	.4020						

MACH (2) = 3.501 BETA (2) = -3.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0840	-.0740	.0490	.8400	.8280	.5810	.3410
.050				1.0940	1.3090	1.0910	1.1070
.081			.7180				
.086		.4650					
.094	.5070						

AMES 87-707 CA12 02A LOWER WING (RBQL18)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.9710	1.2000	1.0300	1.1480
.177			.8400				
.229	.5550						
.246		.6230					
.250				.9110	.9920	.9780	1.0440
.362	.6060						
.400				.9020	1.0950		1.0370
.402			.7410				
.497	.5660						
.550				.8690	.8320		
.565			.7210				
.600							.8210
.650						.7900	
.700	.6000				.6720		
.725				.6600			
.750						.5360	.6350
.760			.0000				
.775				.5920	.5700		
.808			.5050				
.834	.5330						
.850				.4870	.4840	.5230	
.857			.0000				
.865	.4680						
.900	.4460			.4090			.4730
.905			.4120				
.950				.3600	.3710	.4070	
.953			.3650				
.965	.3830						

MACH (2) = 3.501 BETA (3) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0900	-.0860	.0060	.6700	.6950	.6330	.3390
.050				.9960	1.1850	1.2020	1.0150
.081			.6450				
.086		.4220					
.094	.4560						
.150				.8920	1.0940	1.0440	1.0700
.177			.7720				
.229	.5130						
.246		.5790					
.250				.8460	.9620	.9690	.9780
.362	.5750						
.400				.8490	1.0900		.9780
.402			.7070				
.497	.5400						

[illegible] DATA - CARPC

[illegible] (REGL18)

SECTION (1.[illegible] WING

INDEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.100

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.535				.8190	.8490		
.565			.6960				
.600							.7930
.655						.7690	
.700	.5880				.6720		
.725				.6380			
.750						.5120	.6150
.760			.0000				
.775				.5820	.5700		
.800			.4960				
.814	.5260						
.850				.4840	.4830	.4970	
.857			0000				
.865	.4650						
.900	.4430			.4120			.4570
.905			.4090				
.950				.3600	.3790	.3850	
.957			.3610				
.958	.3850						

MACH (2) = 3.501 BETA (4) = 3.175

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
[illegible]	-.0670	-.0550	-.0220	.[illegible]080	.5640	.5030	.3520
[illegible]				.6750	1.0690	1.0840	1.0240
.081			.5610				
.025		.3650					
.[illegible]14	.3990						
.150				.7990	.9920	1.0270	1.0550
.177			.5910				
.229	.4600						
.245		.5160					
.215				.7680	.8730	.9790	.9430
.3[illegible]2	.5210						
.[illegible]				.7370	9980		.9400
.[illegible]72			.6510				
.[illegible]49	.4190						
.[illegible]1[illegible]				.7700	.7960		
.[illegible]35			.6500				
.[illegible]							.7670
.[illegible]						.7530	
.[illegible]77	.5490				.6510		
.[illegible]16				.6010			
.[illegible]27						.5110	.5920
.760			.0000				
.775				.5520	.5600		

AMES 97-707 DA12 02A LOWER WING (R8QL18)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.170

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.808			.4690				
.834	.5050						
.850				.4590	.4740	.4900	
.857			.0000				
.865	.4420						
.900	.4210			.3920			.4420
.905			.3960				
.950				.3450	.3710	.3860	
.953			.3490				
.965	.3650						

MACH (2) = 3.501 BETA (4) = 6.470

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.000	-.1010	-.1020	-.0600	.3640	.4150	.3790	.2870
.050				.7550	.9340	.9640	1.0030
.081			.5010				
.086		.3220					
.094	.3520						
.150				.6990	.8830	.9240	1.0[illegible]
.177			.6270				
.229	.4080						
.246		.4730					
.250				.6860	.7690	.[illegible]90	.9610
.362	.4750						
.400				.7200	.9[illegible]		.9510
.402			.6050				
.497	.4660						
.550				.7140	.7[illegible]90		
.565			.6130				
.600							.7880
.650						.7[illegible]0	
.700	.5200				.5[illegible]		
.725				.5600			
.750						.5080	.5780
.760			.0000				
.775				.5160	.5230		
.808			.4570				
.834	.4970						
.850				.4320	.4440	.4870	
.857			.0000				
.865	.4310						
.900	.4080			.3670			.4290
.905			.3930				
.950				.3260	.3490	.3910	
.953			.3350				

AMES 67-707 CM12 02A LOWER WING (RBQL18)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.121 .. (5) = 0.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.985	.3520						

AMES 87-707 OA12 02A LOWER WING (RPQ.19) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -5.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1800	-.1690	-.0230	.6270	.6570	.5640	.3590
.050				1.1280	1.2800	1.3190	1.3080
.081			.8170				
.086		.5270					
.094	.5770						
.150				1.0360	1.1910	1.2400	1.2580
.177			.9710				
.229	.6300						
.246		.6960					
.250				.9890	1.0940	1.2380	1.1890
.362	.6750						
.400				.9800	1.1730		1.1000
.402			.8580				
.497	.6530						
.550				.9200	.9690		
.565			.8310				
.600							.8540
.650						.8810	
.700	.7250				.7760		
.725				.7410			
.750						.5990	.6320
.760			.0000				
.775				.6770	.6620		
.808			.5850				
.834	.6410						
.850				.5490	.5700	.5680	
.857			.0000				
.865	.5550						
.900	.5280			.4740			.4680
.905			.4730				
.950				.4330	.4480	.4470	
.953			.4270				
.965	.4610						

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1900	-.1850	-.0700	.4950	.5360	.4440	.2750
.050				1.0280	1.1940	1.2150	1.2560
.081			.7290				
.086		.4700					
.094	.5200						

AMES 87-707 OA12 O2A LOWER WING (RBGL19)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.9720	1.1220	1.1490	1.2530
.177			.8310				
.229	.5790						
.246		.6320					
.250				.9320	1.0240	1.1460	1.1930
.362	.6310						
.400				.9310	1.1030		1.1470
.402			.8180				
.497	.6150						
.550				.8820	.9080		
.565			.8000				
.600							.8710
.650						.8670	
.700	.7010				.7280		
.725				.6930			
.750						.6050	.6540
.760			.0000				
.775				.6390	.6480		
.808			.5630				
.834	.6250						
.850				.5260	.5580	.5780	
.857			.0000				
.865	.5440						
.900	.5180			.4590			.4860
.905			.4520				
.950				.4200	.4410	.4560	
.953			.4090				
.965	.4530						

MACH (1) = 2.498 BETA (3) = -.140

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1950	-.1940	-.1120	.3640	.4110	.3380	.1910
.050				.9510	1.1050	1.1090	1.1500
.081			.6540				
.086		.4080					
.094	.4710						
.150				.8960	1.0510	1.0660	1.1720
.177			.8110				
.229	.5310						
.246		.5860					
.250				.8700	.9550	1.0620	1.1090
.362	.5910						
.400				.8820	1.0310		1.0870
.402			.7690				
.497	.5720						

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 C2A LOWER WING (RBQL19)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.140

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.8420	.8600		
.565			.7690				
.600							.8450
.630						.8290	
.700	.6740				.6950		
.725				.6660			
.750						.5890	.6650
.760			.0000				
.775				.6190	.6160		
.808			.5480				
.834	.6080						
.850				.5060	.5330	.3610	
.857			.0000				
.885	.5310						
.900	.5090			.4320			.5010
.905			.4550				
.950				.3910	.4240	.4530	
.953			.3930				
.965	.4450						

MACH (1) = 2.498 BETA (4) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2040	-.2000	-.1380	.2540	.2970	.2300	.1090
.050				.8570	1.0070	1.0250	1.0620
.081			.5850				
.088		.3630					
.094	.4250						
.150				.8230	.9900	.9990	1.1050
.177			.7480				
.229	.4890						
.246		.5410					
.250				.8070	.9010	1.0000	1.0450
.362	.5670						
.400				.8370	.9790		1.0290
.402			.7220				
.497	.5420						
.550				.8130	.8160		
.565			.7560				
.600							.8070
.650						.7880	
.700	.6360				.8640		
.725				.8370			
.750						.5630	.6400
.760			.0000				
.775				.5920	.5910		

DATE 13 SEP 73 [illegible] DATA LISTING

AMES 07-70T DELL CRA LOWER WING (RBGL19)

INDEPENDENT VARIABLE (1) [illegible]

DEPENDENT VARIABLE CP

MACH (1) = 2.496 BETA (4) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.804			.5350				
.834	.5860						
.850				.4890	.5160	.5410	
.857			.0000				
.865	.5160						
.900	.5070			.4200			.4880
.905			.4340				
.950				.3780	.4110	.4380	
.953			.3940				
.955	.4460						

MACH (1) = 2.496 BETA (5) = 6.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2070	-.2080	-.1600	.1610	.1910	.1340	.0320
.050				.7790	.9090	.9340	.9590
.081			.5310				
.086		.3320					
.094	.3750						
.150				.7640	.9040	.9250	1.0260
.177			.6970				
.229	.4520						
.246		.5080					
.250				.7590	.8370	.9250	.9790
.362	.5260						
.400				.7980	.9170		.9650
.402			.6880				
.497	.5220						
.550				.7730	.7760		
.565			.7120				
.600							.7610
.650						.7430	
.700	.6170				.6290		
.725				.9070			
.750						.3400	.6050
.760			.0000				
.775				.5740	.5640		
.808			.5180				
.834	.5740						
.850				.4740	.4980	.5150	
.857			.0000				
.865	.5110						
.900	.5090			.4070			.4510
.905			.4320				
.950				.3650	.3900	.4180	
.953			.3920				

DATE 10 SEP 73 TABULATED PRESSURE DATA - CM12C

AMES 67-7[illegible] CM12 CDA LOWER WING

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (1) = 0.250

Y/BW	.039	.364	.427	.524	.673	.780	.887
X/CW							
.965	.4500						

MACH (2) = 3.502 BETA (1) = [illegible]

Y/BW	[illegible]	364	.427	.524	.673	.780	.887
X/CW							
.000	-.0730	[illegible]	.1050	.9620	.9030	[illegible]	[illegible]
.050				1.2150	1.3010	1.1670	1.0010
.081			.6420				
.086		.7810					
.094	.6010						
.150				1.0620	1.1605	[illegible]	1.1710
.177			9510				
.229	.6460						
.246		.7190					
.250				1.013[illegible]	.9900	[illegible]	1.[illegible]
.362	.6920						
.403				9.60	[illegible]		[illegible]
.402			.6260				
.497	.6410						
.550				.9200	.9040		
.565			.8030				
.900							[illegible]
.650						[illegible]	
.700	.6660				.7170		
.725				.6770			
.750						[illegible]	.6910
.760			0000				
.775				[illegible]	[illegible]		
.808			.5570				
.834	.8360						
.850				[illegible]	[illegible]	[illegible]	
.857			.0000				
.868	.8140						
.900	.4960			[illegible]			[illegible]
.905			4240				
.950					[illegible]	[illegible]	
.953			[illegible]				
.955	.4370						

MACH (2) = 3.502 BETA [illegible] .400

[illegible]		364	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CW							
.000	-.0800	[illegible]	[illegible]	[illegible]	.887	[illegible]	[illegible]
.050				1.1920	1.[illegible]	[illegible]	[illegible]
.081			[illegible]				
.086		.8050					
.094	.5440						

AMES 87-707 C412 TBA LOWER WING (EBGL19)

SOLUTION (1)LOWER SP DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -3.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				1.0010	1.2410	1.0550	1.1350
.177			.8830				
.229	.5910						
.246		.6620					
.250				.9420	1.0260	1.0070	1.0740
.362	.6470						
.400				.9370	1.1250		1.0950
.402			.7850				
.497	.6080						
.550				.9000	.8910		
.565			.7660				
.600							.8510
.650						.8170	
.700	.6410				.6940		
.725				.6850			
.750						.5550	.6370
.760			.0000				
.775				.6190	.5930		
.808			.5470				
.834	.5740						
.850				.5110	.5010	.5420	
.857			.0000				
.865	.5050						
.900	.4880			.4320			.4700
.905			.4320				
.950				.3820	.3880	.4260	
.953			.3870				
.965	.4240						

MACH (2) = 3.502 BETA (3) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0960	-.0890	.0010	.6600	.6850	.6170	.2930
.050				1.0160	1.2080	1.1840	1.0320
.081			.6630				
.086		.4380					
.094	.4780						
.150				.9140	1.1230	1.0580	1.0530
.177			.7960				
.229	.5330						
.246		.6000					
.250				.8690	.9850	.9880	.9960
.362	.5950						
.400				.8710	1.1100		1.0340
.402			.7330				
.497	.5630						

AMES 87-707 OA12 O2A LOWER WING (RBQL19)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.8410	.8770		
.565			.7210				
.600							.8140
.650						.7790	
.700	.6130				.6870		
.725				.6570			
.750						.5220	.6200
.760			.0000				
.775				.6000	.5820		
.808			.5140				
.834	.5520						
.850				.4970	.4820	.5070	
.857			.0000				
.865	.4850						
.900	.4680			.4200			.4590
.905			.4220				
.950				.3690	.3850	.3990	
.953			.3750				
.965	.4050						

MACH (2) = 3.502 BETA (4) = 3.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1010	-.0960	-.0310	.5020	.5550	.4900	.3120
.050				.9010	1.0960	1.0460	1.0420
.081			.5840				
.086		.3800					
.094	.4190						
.150				.825	1.0250	1.0490	1.0430
.177			.7190				
.229	.4820						
.246		.5400					
.250				.7960	.9000	1.0090	.9680
.362	.5450						
.400				.815	1.0210		1.0040
.402			.6780				
.497	.5230						
.550				.7950	.8380		
.565			.6790				
.600							.7040
.650						.7720	
.700	.5780				.6710		
.725				.6220			
.750						.5240	.5980
.760			.0000				
.775				.5710	.5820		

DATE 23 SEP 73 TABULATED PRESSURE DATA - - - CC

AMES 8'-7'07 - 12 02A LOWER WING (RBQL19)

SECTION (1) LOWER - - 1 DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.170	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.678			.4930				
	.834	.5300						
	.850				.4760	.4940	.5040	
	.857			.0000				
	.865	.4650						
	.900	.4430			.4060			.4400
	.905			.4140				
	.950				.3630	.3830	.3960	
	.953			.3660				
	.965	.3870						
MACH (2) = 3.502 BETA (5) = 6.470	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.1020	-.1000	-.0580	.3610	.4100	.3690	.2570
	.050				.7770	.9580	.9760	1.0100
	.081			.4990				
	.086		.3180					
	.094	.3470						
	.150				.7240	.9110	.9300	1.0330
	.177			.6360				
	.229	.4090						
	.246		.4700					
	.250				.7140	.8110	.8970	.9810
	.362	.4810						
	.400				.7500	.9270		1.0150
	.402			.6150				
	.497	.4690						
	.550				.7410	.7640		
	.565			.6220				
	.600							.7940
	.650						.7330	
	.700	.5260				.6100		
	.725				.5830			
	.750						.5030	.5820
	.760			.0000				
	.775				.5410	.5270		
	.808			.4550				
	.834	.4950						
	.850				.4470	.4480	.4880	
	.857			.0000				
	.865	.4320						
	.900	.4140			.3850			.4280
	.905			.4010				
	.950				.3410	.3550	.3880	
	.953			.3540				

AMES 87-707 0412 024 LOWER WING (RBQL19)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 1.502 BETA (3) = 6.[illegible]

X/CW	.239	.304	.427	.534	.673	.780	.887
Y/CW							
.161	.3520						

DATE 10 SEP 73 INTERPOLATED PRESSURE DATA

(RBGL20) (16 MAY 73)

[illegible] LOWER WING

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	38.3000 INCHES
LREF =	39.8430 INCHES	YMRP =	.0000 INCHES
BREF =	39.8430 INCHES	ZMRP =	.0000 INCHES
SCALE =	1300 SCALE		

PARAMETRIC DATA

ALPHA =	30.000	RUDDER =	.000
ELEVON =	10.000	AUXFLR =	40.000

SECTION (1)LOWER WING

DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1860	-.1770	-.0310	.6240	.6480	.5510	.3700
.050				1.1250	1.2790	1.3150	1.3000
.081			.8160				
.086		.5250					
.094	.5770						
.150				1.0310	1.1840	1.2360	1.2130
.177			.9700				
.229	.6280						
.246		.6960					
.250				.9880	1.0910	1.2340	1.1830
.362	.6710						
.400				.9770	1.1420		1.0570
.402			.8580				
.497	.6540						
.550				.9180	.9990		
.565			.8320				
.600							.8410
.650						.8850	
.700	.7290				.7560		
.725				.7560			
.750						1.1930	1.1290
.760			.0000				
.775				1.1220	1.1410		
.808			1.0360				
.834	.6430						
.850				.9970	1.0520	.9990	
.857			.0000				
.865	.9640						
.900	.9000			.8870			.8780
.905			.9000				
.950				.8080	.8120	.8390	
.953			.8070				
.965	.6620						

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1970	-.1940	-.0810	.4870	.5280	.4350	.2850
.050				1.0330	1.1900	1.2090	1.2520
.081			.7260				
.086		.4580					
.094	.5140						

AMES 87-707 OA12 02A LOWER WING (RBQL2D)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.239	.364	.427	.534	.673	.780	.887
X/CW							
.150				.9630	1.1100	1.1510	1.2190
.177			.8680				
.229	.5700						
.246		.6250					
.253				.9310	1.0190	1.1430	1.1880
.362	.6220						
.400				.9290	1.0780		1.0760
.402			.8130				
.497	.6070						
.550				.8810	.9370		
.565			.7970				
.600							.8600
.650						.8780	
.700	.6960				.7290		
.725				.7080			
.750						1.1990	1.1480
.760			.0000				
.775				1.0690	1.1240		
.808			.9930				
.834	.6180						
.850				.9570	1.0360	1.0170	
.857			.0000				
.865	.9370						
.900	.8660			.8610			.8890
.905			.8700				
.950				.7980	.9180	.8600	
.953			.7790				
.965	.6460						

MACH (1) = 2.498 BETA (3) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2010	-.2010	-.1140	.3650	.4100	.3340	.2040
.050				.9490	1.1060	1.1080	1.1500
.081			.6520				
.086		.4090					
.094	.4680						
.150				.8950	1.0420	1.0720	1.1150
.177			.8090				
.229	.5200						
.246		.5830					
.250				.8690	.9500	1.0590	1.1110
.362	.5890						
.400				.8850	1.0070		1.0250
.402			.7700				
.497	.5690						

AMES 87-707 OA12 02A LOWER WING (RB0L20)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.8410	.8860		
.555			.7680				
.600							.8380
.650						.8370	
.700	.6730				.6980		
.725				.6850			
.750						1.1590	1.1370
.760			.0000				
.775				1.0400	1.0730		
.808			.9670				
.834	.6080						
.850				.9210	.9930	.9960	
.857			.0000				
.865	.9120						
.900	.8430			.8260			.9060
.905			.8450				
.950				.7580	.7980	.8550	
.953			.7440				
.965	.6450						

MACH (1) = 2.498 BETA (4) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2030	-.2020	-.1420	.2520	.2960	.2310	.1240
.050				.8590	1.0090	1.0230	1.0580
.081			.5780				
.086		.3550					
.094	.4180						
.150				.8250	.9690	1.0030	1.0480
.177			.7410				
.229	.4830						
.246		.5350					
.250				.8070	.9010	1.0000	1.0450
.362	.5540						
.400				.8390	.9580		.9740
.402			.7180				
.497	.5370						
.550				.8140	.8450		
.565			.7310				
.600							.7970
.650						.8000	
.700	.6310				.6680		
.725				.6630			
.750						1.1170	1.0940
.760			.0000				
.775				1.0100	1.0350		

AMES 87-707 OA12 O2A LOWER WING (RBQL20)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.9340				
.834	.5780						
.850				.8950	.9590	.9630	
.857			.0000				
.865	.8720						
.900	.8180			.8090			.8750
.905			.8280				
.950				.7440	.7780	.8260	
.953			.7350				
.965	.6520						

MACH (1) = 2.498 BETA (5) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2060	-.2070	-.1610	.1620	.1910	.1370	.0450
.050				.7790	.9100	.9340	.9540
.081			.5320				
.086		.3500					
.094	.3760						
.150				.7630	.8930	.9250	[illegible]
.177			.6970				
.229	.4300						
.246		.5080					
.250				.7600	.8340	.9240	.9780
.362	.5270						
.400				.7990	.8[illegible]0		.9190
.402			.6890				
.497	.5210						
.550				.7740	.8010		
.565			.7110				
.600							.7550
.650						.7540	
.700	.6170				.6360		
.725				.6350			
.750						1.0670	1.0380
.760			.0000				
.775				.9780	.9920		
.808			.9050				
.834	.5740						
.850				.8650	.9140	.9270	
.857			.0000				
.865	.8620						
.900	.8160			.7810			.8360
.905			.8080				
.950				.7220	.7510	.7960	
.953			.7190				

DATE 10 SEP 73 — RELATED PRESSURE DATA — [illegible]

WCS 07-707 CH 12 C2A LOWER WING (RBGL20)

SECTION (11)C=67 DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 5.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.6720						

MACH (2) = 3.501 BETA (1) = -5.100

Y/BW	.299	364	.427	.534	.673	.780	.887
X/CW							
.000	.0780	-.0610	.1000	.9730	.9000	.5290	.3800
.050				1.2060	1.2960	1.1620	1.2210
.081			8330				
.086		.5540					
.094	.5920						
[illegible]				1.0740	1.1460	1.1050	1.1340
.1 [illegible]			.0430				
.205	.6260						
.249		.7130					
.450				1.0060	.9780	1.0500	1.1200
.382	.6840						
.400				.9920	1.0670		1.0150
.472			.8210				
.497	.6340						
.540				.9150	.9300		
.565			.7960				
600							.8490
.650						.8400	
.700	.6590				.7140		
.725				.6780			
.750						1.1040	1.1220
.760			.3000				
.775				1.0410	1.0180		
.908			.9780				
.834	.5790						
.853				.9280	.9580	.9830	
.837			.0000				
.865	.8020						
.900	.8760			.8240			.8760
.905			.8450				
.950				.7570	.7860	.8220	
.953			.7570				
.965	.6700						

MACH (2) = 3.501 BETA (2) = -3.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0870	-.0780	.0470	.8280	.8180	.5640	.3000
.050				1.1160	1.3340	1.1160	1.1210
.081			.7520				
.086		.5020					
.094	.5410						

AMES 87-707 OA12 02A LOWER WING (RBQL20)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.490

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.150				.9940	1.2200	1.0560	1.0850
.177			.8770				
.229	.5880						
.246		.6570					
.250				.9350	1.0090	1.0040	1.0700
.362	.6440						
.400				.9310	1.0740		.9970
.402			.7790				
.497	.6030						
.550				.8950	.9210		
.565			.7610				
.600							.8340
.650						.8150	
.700	.6370				.8930		
.725				.8250			
.750						1.0750	1.1150
.760			.0000				
.775				1.0460	1.0030		
.808			.9510				
.834	.5700						
.850				.9400	.9400	.8690	
.857			.0000				
.865	.8730						
.900	.8570			.8330			.8880
.905			.8590				
.950				.7590	.7770	.8170	
.953			.7790				
.965	.6510						

MACH (2) = 3.501 BETA (3) = -.130

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0980	-.0940	-.0030	.6530	.6800	.6120	.2940
.050				1.0170	1.2100	1.1830	1.0310
.081			.6690				
.086		.4420					
.094	.4600						
.150				.9120	1.1110	1.0640	1.0090
.177			.8710				
.229	.5560						
.246		.6040					
.250				.8680	.9300	.9870	.9960
.362	.6000						
.400				.8710	1.0760		.9480
.402			.7390				
.497	.5670						

[illegible] SEP 79 [illegible]LATED PRESSURE DATA - OA12C

AMES 67-707 OA12 02A LOWER WING (RBGL20)

SECTION [illegible] DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.8420	.9090		
.565			.7260				.8030
.600						.7830	
.650					.6880		
.700	.6170			.6660			
.725						1.0320	1.0830
.750			.0000				
.760				1.0260	.9880		
.775			.9260				
.808							
.834	.5580			.9190	.9370	.9350	
.850			.0000				
.857							
.865	.8560			.8150			.8670
.900	.8330		.8410				
.905				.7490	.7560	.7890	
.950			.7590				
.953							
.965	.6360						

MACH (2) = 3.501 BETA (4) = 3.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0990	-.0900	-.0310	.4970	.5570	.4900	.3140
.050				.8980	1.0930	1.1080	1.0310
.081			.5930				
.086		.3910					
.094	.4280			.8210	1.0090	1.0490	.9880
.150							
.177			.7260				
.229	.4900						
.246		.5500					
.250				.7940	.8900	1.0020	.9630
.362	.5540						
.400				.8120	.9850		.9100
.402			.6860				
.497	.5310						
.550				.7930	.8670		
.565			.6860				
.600							.7790
.650						.7710	
.700	.5850				.6720		
.725				.6310			
.750						1.0230	1.0600
.760			.0000				
.775				.9780	.9810		

AMES 87-707 OA12 02A LOWER WING (RB0L20)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.8850				
.834	.5400						
.850				.8810	.9310	.9220	
.857			.0000				
.865	.8220						
.900	.7970			.7860			.8430
.905			.8140				
.950				.7230	.7340	.7810	
.953			.7280				
.965	.6230						

MACH (2) = 3.501 BETA 5) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0990	-.0990	-.0550	.3600	.4090	.3710	.2610
.050				.7740	.9560	.9830	1.0130
.081			.5220				
.086		.3400					
.094	.3690						
.150				.7210	.8980	.9400	.9950
.177			.6520				
.229	.4270						
.246		.4920					
.250				.7110	.8050	.9110	.9900
.362	.5010						
.400				.7460	.8410		.9380
.402			.6330				
.497	.4890						
.550				.7380	.7960		
.565			.6410				
.600							.7020
.650						.7460	
.700	.5460				.6190		
.725				.5520			
.750						1.0000	1.0320
.760			.0000				
.775				.9260	.9150		
.808			.6390				
.834	.5140						
.850				.8390	.8720	.9040	
.857			.0000				
.865	.7780						
.900	.7550			.7470			.8350
.905			.7780				
.950				.6830	.7080	.7760	
.953			.6940				



AMES 37-707 DA12 02A LOWER WING (RBGL23)

SECTION 1 BILOCAL NS DEPENDENT VARIABLE CP

MACH (2) = 3.001 ETA (5) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.6040						

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C (RB9L21) (16 MAY 73)

AMES 87-70T OA12 02A LOWER WING

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8499 INCHES YMRP = .0000 INCHES
BREF = 39.8400 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 0.000

SECTION (1)LOWER WING

INDEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.670

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1690	-.1760	-.0260	.6210	.6500	.5600	.3700
.050				1.1300	1.2800	1.3130	1.3030
.081			.8150				
.086		.5310					
.094	.5600						
.150				1.0360	1.1880	1.2340	1.2310
.177			.9740				
.229	.6320						
.346		.6910					
.250				9900	1.0940	1.2310	1.1090
.362	.6780						
.400				.9020	1.1500		1.0870
.502			.8310				
.497	.6570						
.550				.9.00	1.0000		
.565			.8350				
.600							.8500
.650						.7370	
.701	.7340				.7663		
.713				.7020			
.770						.0840	.0870
.750			.8000				
.7 [illegible]				.6470	.7990		
.800			.1300				
.824	.6420						
.850				.0310	.0420	.0320	
.857			.0090				
.865	.0630						
.900	.0670			-.0060			.0090
.905			-.0050				
.950				-.0300	-.0170	-.0140	
.953			-.0120				
.995	.0980						

MACH (1) = 2.498 BETA (2) = -3.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1960	-.1910	-.0780	.4900	.5290	.4370	.2950
.050				1.0320	1.1670	1.2100	1.2460
.081			.7260				
.086		.4650					
.094	.5170						

AMES 87-707 0412 02A LOWER WING (RBAL21)

SECTION 7 (LOWER WING) DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.9630	1.1130	1.1500	1.2320
.177			.8740				
.229	.5740						
.246		.6270					
.250				.9290	1.0190	1.1410	1.1870
.362	.6240						
.400				.9290	1.0770		1.0870
.402			.8130				
.497	.6120						
.550				.8790	.9580		
.565			.7970				
.600							.8610
.650						.8750	
.700	.6980				.7200		
.725				.7000			
.750						.0850	.0870
.760			.0000				
.775				.0970	.0950		
.808			.1140				
.834	.6210						
.850				.0150	.0350	.0330	
.857			.0000				
.865	.0510						
.900	.0550			-.0160			.0060
.905			-.0200				
.950				-.0400	-.0170	-.0120	
.953			-.0360				
.965	.0600						

MACH (1) = 2.498 BETA (3) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1920	-.1910	-.1100	.3700	.4160	.3350	.2060
.050				.9510	1.1040	1.1070	1.1440
.081			.6500				
.086		.4120					
.094	.4690						
.150				.8950	1.0470	1.0700	1.1300
.177			.8110				
.229	.5290						
.246		.5850					
.250				.8680	.9540	1.0570	1.1120
.362	.5910						
.400				.8830	1.0080		1.0320
.402			.7700				
.497	.5720						

AMES 87-707 OA12 02A LOWER WING (RBGL21)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.130

Y/BW	.298	.364	.427	.534	.673	.780	.887
X/CW							
.550				.8420	.6040		
.565			.7690				
.600							.8370
.630						.8340	
.700	.6740				.6860		
.725				.6800			
.750						.0800	.0970
.760			.0000				
.775				.0970	.0840		
.808			.1180				
.834	.6080						
.850				.0150	.0310	.0330	
.857			.0000				
.865	.0550						
.900	.0580			-.0150			.0160
.905			-.0200				
.950				-.0420	-.0210	-.0110	
.953			-.0360				
.965	0430						

MACH (1) = 2.498 BETA (4) = 3.080

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2020	-.2030	-.1410	.2530	.2970	.2310	.1220
.050				.8560	1.0070	1.0210	1.0570
.081			.5850				
.086		.3650					
.094	.4260						
.150				.8230	.9760	1.0030	1.0580
.177			.7470				
.229	.6880						
.246		.5410					
.250				.8050	.9030	.9980	1.0450
.362	.5570						
.400				.8380	.9580		.9820
.402			.7220				
.497	.5430						
.550				.8130	.8420		
.565			.7360				
.600							.8000
.650						.8010	
.700	.6370				.6590		
.725				.6560			
.750						.0750	.0960
.760			.0000				
.775				.0490	.0810		

AMES 87-707 CA12 C2A LOWER WING (889L21)

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (4) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.1130				
.834	.5830						
.850				.0090	.0290	.0320	
.857			.0000				
.865	.0580						
.900	.0620			-.0250			.0090
.905			-.0180				
.950				-.0450	-.0230	-.0120	
.953			-.0350				
.965	.0260						

MACH (1) = 2.498 BETA (5) = 6.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2100	-.2140	-.1660	.1530	.1870	.1290	.0380
.050				.7790	.9080	.9330	.9510
.081			.5320				
.086		.3270					
.094	.3730						
.150				.7630	.8950	.9240	.9720
.177			.6960				
.229	.4510						
.246		.5070					
.250				.7590	.8330	.9220	.9760
.362	.5240						
.400				.7960	.8930		.9200
.402			.6880				
.497	.5190						
.550				.7730	.7980		
.565			.7090				
.600							.7540
.650						.7530	
.700	.6150				.8240		
.725				.6270			
.750						.0620	.0700
.760			.0000				
.775				.0810	.0740		
.808			.1040				
.834	.5720						
.850				.0040	.0200	.0210	
.857			.0000				
.865	.0560						
.900	.0650			-.0290			-.0020
.905			-.0210				
.950				-.0490	-.0320	-.0190	
.953			-.0350				

AMES 87-707 OA12 C2A LOWER WING (F30L21)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0070						

MACH (2) = 3.503 BETA (1) = -6.770

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0710	-.0560	.1070	.9790	.8990	.5310	.3930
.050				1.2080	1.2890	1.1640	1.2200
.081			.8390				
.086		.5570					
.094	.5980						
.150				1.0740	1.1560	1.1080	1.1580
.177			.9460				
.229	.6430						
.246		.7170					
.250				1.0070	.9840	1.0530	1.1210
.362	.6890						
.400				.9920	1.0580		1.0330
.402			.8250				
.497	.6490						
.550				.9130	.9300		
.565			.7990				
.600							.8490
.650						.8360	
.700	.6630				.7140		
.725				.6710			
.750						.1320	.1360
.760			.0000				
.775				.1310	1.60		
.808			.1640				
.834	.5620						
.850				.0467	.0810	.0710	
.857			.0000				
.865	.1050						
.900	.0850			.0180			.0630
.905			.0190				
.950				-.0020	.0150	.0320	
.953			.0020				
.965	.1030						

MACH (2) = 3.503 BETA (2) = -3.410

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0830	-.0770	.0450	.8320	.8210	.5690	.3110
.050				1180	1.3280	1.1170	1.1200
.081			.7900				
.086		.4990					
.094	.5390						

AMES 87-707 CAR2 ICA LOWER WING (RDOL21)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (2) = -3.410	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.150				.9920	1.2280	1.0600	1.0890
	.177			.8760				
	.229	.5870						
	.246		.6550					
	.250				.9350	1.0170	1.0040	1.0690
	.362	.6430						
	.400				.9300	1.0650		1.0160
	.402			.7780				
	.497	.6020						
	.550				.8960	.9160		
	.565			.7610				
	.600							.8330
	.650						.8090	
	.700	.6360				.6890		
	.725				.6790			
	.750						.1250	.1290
	.760			.0000				
	.775				.1390	.1120		
	.809			.1570				
	.834	.5670						
	.850				.0530	.0550	.0620	
	.857			.0000				
	.865	.1010						
	.907	.0770			.0220			.0540
	.903			.0230				
	.950				.0010	.0070	.0240	
	.953			.0000				
	.965	.0730						

MACH (2) = 3.503 BETA (3) = -.130	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.3080	-.0930	.0000	.6660	.6890	.6190	.3060
	.050				1.0200	1.2060	1.1900	1.0340
	.061			.6660				
	.086		.4100					
	.094	.4760						
	.150				.9150	1.1240	1.0740	1.0190
	.177			.7990				
	.220	.5330						
	.246		.6010					
	.250				.8710	.9870	.9940	1.0040
	.300	.5490						
	.401				.3730	1.0660		.9700
	.412			.7353				
	.447	.5650						

AMES 67-707 DA12 02A LOWER WING (BBQL21)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.130

Y/BW	.293	.364	.427	.534	.673	.780	.887
X/CW							
.550				.8430	.9150		
.565			.7230				
.600							.8080
.650						.7820	
.700	.6150				.6930		
.725				.6580			
.750						.1150	.1160
.760			.0000				
.775				.1300	.1180		
.808			.1460				
.834	.5530						
.850				.0500	.0590	.0530	
.857			.0000				
.865	.0920						
.900	.0630			.0200			.0440
.905			.0160				
.950				-.0010	.0120	.0150	
.953			-.0010				
.965	.0500						

MACH (2) = 3.503 BETA (4) = 3.170

Y/BW	.293	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1000	-.0980	-.0330	.4960	.5490	.4870	.3190
.050				.8970	1.03[illegible]	[illegible].1060	1.0280
.081			.5820				
.086		.3810					
.094	.4210						
.150				.8190	[illegible].0170	1.0520	.9870
.177			.7160				
.229	.4790						
.246		.5390					
.250				.7920	.8940	1.0020	.9620
.362	.5450						
.400				.8110	.9730		.9250
.402			.6760				
.497	.5200						
.550				.7920	.8650		
.565			.6750				
.600							.7780
.650						.7650	
.700	.5750				.6690		
.725				.6240			
.750						.1210	.1110
.760			.0000				
.775				.1280	.1220		

JMES 87-707 DA12 C2A LO-SP WING (R84L24)

SECTION : SYLGHET WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.1350				
.834	.5280						
.850				.0520	.0660	.0580	
.857			.0000				
.865	.0870						
.900	.0570			.0220			.0390
.905			.0210				
.950				.0020	.0170	.0180	
.953			.0040				
.965	.0270						

MACH (2) = 3.503 BETA (5) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0980	-.1000	-.0530	.3500	.4120	.3700	.2650
.050				.7650	.9430	.9810	1.0080
.081			.5110				
.086		.3270					
.094	.3570						
.150				.7130	.8960	.9400	.9950
.177			.6400				
.229	.4190						
.246		.4830					
.250				.7040	.8000	.9000	.9870
.362	.4910						
.400				.7380	.8810		.9510
.402			.6200				
.497	.4770						
.550				.7290	.7920		
.565			.6280				
.600							.7810
.650						.7400	
.700	.5350				.6160		
.725				.5770			
.750						.1170	.1100
.760			.0000				
.775				.1080	.1080		
.808			.1270				
.834	.4990						
.850				.0370	.0540	.0600	
.857			.0000				
.865	.0790						
.900	.0520			.0060			.0410
.905			.0060				
.950				-.0120	.0110	.0220	
.953			-.0090				

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A LOWER WING (FBGL21)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (5) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0080						

MFS 17-717 0412 02A LOWER WING (RBQL22) (16 MAY 73)

GEOMETRIC DATA

SREF = 2,42[illegible] SQ.FT. XMRP = 32.3000 INCHES
LREF = 70.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -9.630

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0860	-.0770	.2160	1.1180	1.0770	1.0720	.8180
.050				.8870	1.0010	1.0530	1.0160
.081			.6660				
.086		.4230					
.094	.4290						
.150				.7760	.8890	.9510	.9290
.177			.7080				
.229	.4460						
.246		.5210					
.250				.7120	.8060	.8820	.8930
.362	.4570						
.400				.6800	.8570		.8220
.402			.5610				
.497	.4140						
.550				.6260	.7060		
.565			.5170				
.600							.6350
.650						.6030	
.700	.4140				.5010		
.725				.4450			
.750						.4860	.4680
.760			.0000				
.775				.3850	.4070		
.808			.3050				
.834	.3280						
.850				.2890	.3350	.3520	
.857			.0000				
.865	.2600						
.900	.2470			.2260			.3170
.905			.2190				
.950				.1930	.2210	.2550	
.953			.1770				
.965	.2020						

MACH (1) = 2.498 BETA (2) = -5.610

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1410	-.1350	.0720	.8960	.8870	.8890	.7690
.050				.8000	.9110	.9600	1.0140
.081			.5670				
.086		.3450					
.094	.3680						

AMES 87-707 OA12 02A LOWER WING (SB3L22)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -5.610

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.150				.6960	.8040	.8590	.9120
.177			.0130				
.229	.3860						
.246		.4470					
.250				.6480	.7230	.8160	.8710
.362	.4040						
.400				.6220	.8120		.7990
.402			.5090				
.497	.3680						
.550				.5710	.6520		
.565			.4810				
.600							.6190
.650						.5800	
.700	.3930				.4730		
.725				.4080			
.750						.4700	.4540
.760			.0000				
.775				.3500	.3640		
.808			.2850				
.834	.3200						
.850				.2610	.3100	.3390	
.857			.0000				
.865	.2600						
.900	.2430			.2030			.2930
.905			.2020				
.950				.1750		.2420	
.953			.1610				
.965	.1940						

MACH (1) = 2.498 BETA (3) = .430

Y/BW / X/CW	.299	.364	.427	.534	673	.780	.887
.000	-.1840	-.1840	-.0740	.5850	.6830	.6140	.5140
.050				.6830	.7910	.8270	.8590
.081			.4400				
.086		.2460					
.084	.2890						
.150				.5660	.6970	.7430	.7870
.177			.5140				
.229	.3130						
.246		.3570					
.250				.5030	.6250	.7070	.7610
.362	.3390						
.400				.5470	.7010		.7100
.402			.5430				
.497	.3130						

AMES 67-7[illegible] [illegible] 02A [illegible] OF WING (RBGL22)

SECTION (1) LOWER [illegible] DEFLECTED VARIABLE CP

MACH (1) = 2.498 BETA (3) = .430	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.550				.5110	.5710		
	.565			.4370				
	.600							.5550
	.650						.5060	
	.700	.3620				.4100		
	.725				.3680			
	.750						.4150	.4090
	.760			.0000				
	.775				.3180	.3310		
	.806			.2640				
	.834	.3020						
	.850				.2410	.2720	.3000	
	.857			.0000				
	.865	.2510						
	.900	.2340			.1880			.2670
	.905			.1930				
	.950				.1540	.1800	.2140	
	.953			.1580				
	.965	.1880						

MACH (1) = 2.498 BETA (4) = 6.450	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.1970	-.2060	-.1590	.2920	.3610	.3450	.2610
	.050				.5470	.6640	.6890	.7150
	.081			.3220				
	.086		.1640					
	.094	.2070						
	.150				.4850	.5890	.6260	.6600
	.177			.4190				
	.229	.2400						
	.246		.2800					
	.250				.4660	.5290	.5930	.6470
	.362	.2870						
	.400				.4740	.5990		.6170
	.402			.3910				
	.497	.2680						
	.550				.4490	.4950		
	.565			.3900				
	.600							.4750
	.650						.4310	
	.700	.3180				.3480		
	.725				.3300			
	.750						.3500	.3560
	.760			.0000				
	.775				.2860	.2890		

AMES 87-707 OA12 02A LOWER WING (SBOL22)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (4) = 6.450

Y/BW	.299	.364	.427	.534	.673	.780	.897
X/CW							
.808			.2360				
.834	.2760						
.850				.2160	.2330	.2510	
.857			.0000				
.865	.2300						
.900	.2170			.1640			.2270
.905			.1800				
.950				.1330	.1550	.1800	
.953			.1480				
.965	.1760						

MACH (1) = 2.499 BETA (5) = 10.460

Y/BW	.299	.364	.427	.534	.673	.780	.897
X/CW							
.000	-.2050	-.2150	-.1860	.1380	.2120	.1920	.1220
.050				.4610	.5770	.5890	.6080
.081			.2620				
.086		.1280					
.094	.1510						
.150				.4230	.5160	.5480	.5800
.177			.3640				
.229	.2030						
.246		.2390					
.250				.4120	.4890	[illegible]	.5720
.362	.2520						
.400				.4200	.5070		.5440
.402			.3550				
.497	.2360						
.550				.4105	.4390		
.565			.3600				
.600							.4200
.650						.3780	
.700	.2860				.3090		
.725				.3020			
.750						.3100	.3230
.790			.0000				
.775				.2950	.2830		
.808			.2200				
.834	.2540						
.850				.2000	.2130	.2230	
.857			.1900				
.865	.2140						
.900	.2070			.1530			.2050
.905			.1700				
.950				.1200	.1370	.1680	
.953			.1390				

AMES T-737 CA12 024 LOWER WING (FBGL02)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 10.460

Y/BW	.299	.364	.427	.534	.673	.780	.897
X/CW							
.965	.1690						

MACH (2) = 3.502 BETA (1) = -9.610

Y/BW	.299	.364	.427	.534	.673	.780	.897
X/CW							
.000	-.0260	.0030	.3480	1.4960	.9570	.9380	.9200
.050				.9600	.8890	.8770	.8740
.081			.6740				
.086		.4240					
.094	.4210						
.150				.8040	.7920	.7970	.8020
.177			.6820				
.229	.4230						
.246		.5190					
.250				.6910	.6980	.7640	.7600
.362	.4460						
.400				.6070	.7770		.7430
.402			.5360				
.497	.4000						
.550				.5780	.6270		
.565			.4900				
.600							.6010
.650						.5670	
.700	.3850				.4630		
.725				.4000			
.750						.4710	.4590
.760			.0000				
.773				.3420	.3830		
.838			.2780				
.834	.3090						
.850				.2620	.3170	.3610	
.857			.0000				
.865	.2450						
.900	.2230			.2060			.3280
.905			.2030				
.950				.1650	.2170	.2750	
.953			.1640				
.965	.1840						

MACH (2) = 3.502 BETA (2) = -5.600

Y/BW	.299	.364	.427	.534	.673	.780	.897
X/CW							
.000	-.0560	-.0410	.2090	1.2630	1.0400	.8690	.7730
.050				.8430	.7970	.8470	.8800
.081			.5750				
.086		.3560					
.094	.3590						

AMES 87-707 OA12 02A LOWER WING (80L22)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -5.000	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.150				.7080	.7190	.7730	.7860
	.177			.6190				
	.229	.3770						
	.246		.4480					
	.250				.6500	.6520	.7250	.7550
	.362	.4060						
	.400				.6260	.7430		.7190
	.402			.4930				
	.497	.3560						
	.550				.5620	.6050		
	.565			.4630				
	.600							.5780
	.650						.5260	
	.700	.3580				.4360		
	.725				.3750			
	.750						.4290	.4440
	.760			.0000				
	.775				.3200	.3540		
	.808			.2710				
	.834	.2840						
	.850				.2500	.2900	.3230	
	.857			.0000				
	.865	.2330						
	.900	.2180			.1960			.3120
	.905			.1940				
	.950				.1580	.1890	.2400	
	.953			.1550				
	.965	.1780						

MACH (2) = 3.502 BETA (3) = .420	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.0840	-.0820	.0350	.8840	.9080	.9110	.5760
	.050				.7060	.8260	.8560	.7960
	.081			.4410				
	.086		.2560					
	.094	.2780						
	.150				.5890	.7160	.7730	.7160
	.177			.4940				
	.220	.2990						
	.246		.3550					
	.270				.3450	.6280	.6550	.6480
	.362	.3300						
	.400				.5310	.7140		.6710
	.402			.4120				
	.497	.3020						

AMES 87-707 DM12 02A LOWER WING (RB0L22)

SECTION (1) LOCATION NO DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = .420	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.550				.5040	.5790		
	.565			.3970				
	.600							.5260
	.650						.4690	
	.700	.3110				.4200		
	.725				.3520			
	.750						.3800	.3940
	.760			.0000				
	.775				.3040	.3320		
	.808			.2440				
	.834	.2620						
	.850				.2370	.2650	.2850	
	.857			.0000				
	.865	.2180						
	.900	.2030			.1650			.2610
	.905			.1820				
	.950				.1510	.1700	.2070	
	.953			.1480				
	.965	.1690						
MACH (2) = 3.502 BETA (4) = 6.440	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.0920	-.1010	-.0570	.5170	.5890	.6030	.5300
	.050				.5510	.6640	.6940	.7470
	.081			.3240				
	.086		.1830					
	.094	.2080						
	.150				.4550	.5740	.6290	.6740
	.177			.3930				
	.229	.2380						
	.246		.2740					
	.250				.4270	.5070	.5790	.6420
	.362	.2700						
	.400				.4280	.5910		.6260
	.402			.3440				
	.497	.2550						
	.550				.4160	.4810		
	.565			.3380				
	.600							.4940
	.650						.4320	
	.700	.2750				.3450		
	.725				.3040			
	.750						.3500	.3790
	.760			.0000				
	.775				.2630	.2820		

AMES 87-737 C412 02A LOWER WING (RBQL22)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 6.440	Y/W	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.878			.2140				
	.874	.2430						
	.910				.2080	.2310	2570	
	.957			.0000				
	.963	.2100						
	.970	.1900			.1640			.2510
	.975			.1690				
	.981				.1320	.1530	.1820	
	.988			.1420				
	995	.1550						
MACH (2) = 3.502 BETA (5) = 10.440	Y/W	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.0930	-.1080	-.1060	.3620	.4150	.4260	.3600
	.050				.4580	5650	.5900	.6220
	.081			.2560				
	.098		.1330					
	.094	.1440						
	.150				.3850	.4880	.5350	.5600
	.177			.3340				
	.229	.1790						
	216		.2240					
	.250				.3700	.4320	.4970	.5550
	.362	.2230						
	.400				.3800	.5010		.5410
	.402			.3020				
	.497	.2150						
	.550				.3750	.4190		
	.565			.3010				
	.600							.4300
	.650						.3720	
	.700	.2390				.2930		
	.725				.2760			
	.750						.2990	.3340
	.760			.0000				
	.775				.2410	.2490		
	.808			.1890				
	.834	.2160						
	.850				.1870	.2050	.2170	
	.857			.0000				
	.865	.1830						
	.900	.1650			.1480			.2120
	.905			.1570				
	.950				.1220	.1360	.1510	
	.953			.1310				

AMES 87-707 OA12 02A LOWER WING (RBQL22)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 10.440

Y/BW	.299	.364	.427	.534	.673	.780	887
X/CW							
.965	.1280						

AMES 87-707 OA12 02A LOWER WING (SBQL23) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 15.000 RUDDER = .000
ELEVON = .000 RUDFLR = .000

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -3.360

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1000	-.0890	.1780	1.0100	.9580	.9790	.9130
.050				.6150	.6780	.7190	.7750
.081			.4600				
.086		.2490					
.094	.2540						
.150				.5240	.6110	.6570	.7020
.177			.4630				
.220	.2610						
.245		.3330					
.250				.4750	.5440	.6200	.6730
.362	.2750						
.400				.4480	.5670		.6380
.402			.3490				
.497	.2470						
.550				.4160	.4930		
.565			.3270				
.600							.4840
.650						.4340	
.700	.2500				.7[illegible]		
.725				.2090			
.750						.3390	.3430
.760			.0000				
.775				.2230	.2620		
.808			.1690				
.834	.1900						
.850				.1560	.2060	.2340	
.857			.0000				
.865	.1450						
.900	.1330			.1080			.2130
.905			.1040				
.950				.0820	.1160	.1520	
.953			.0700				
.965	.720						

MACH (1) = 2.498 BETA (2) = .420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1520	-.1510	-.0280	.7020	.6990	.7130	.6620
.050				.5340	.6080	.6350	.6930
.081			.3460				
.086		.1640					
.094	.1870						

DATE 10 SEP 73 CALCULATED PRESSURE DATA - DA12C

AMES 87-707 DA12 02A LOWER WING (RBGL23)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = .420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.4470	.5300	.5670	.6120
.177			.3850				
.229	.2020						
.246		.2510					
.250				.4070	.4680	.5360	.5850
.362	.2260						
.400				.3920	.5370		.5450
.402			.3090				
.497	.2020						
.550				.3700	.4230		
.565			.2980				
.600							.4230
.650						.3690	
.700	.2350				.2870		
.725				.2480			
.750						.2910	.2990
.760			.0000				
.775				.2050	.2230		
.808			.1580				
.834	.1890						
.850				.1420	.1710	.2010	
.857			.0000				
.865	.1490						
.900	.1390			.0960			.1720
.905			.1050				
.950				.0680	.0920	.1250	
.953			.0730				
.965	.1040						

MACH (1) = 2.498 BETA (3) = 6.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1810	-.1900	-.1500	.3890	.4520	.4660	.4130
.050				.4420	.5220	.5500	.5850
.081			.2400				
.086		.0950					
.094	.1260						
.150				.3680	.4540	.4840	.5230
.177			.3098				
.229	.1480						
.246		.1650					
.250				.3410	.3910	.4570	.4980
.362	.1800						
.400				.3380	.4570		.4770
.402			.2690				
.497	.1680						

AMES 87-707 OA12 C2A LOWER WING (SPGL23)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = 6.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				.3230	.3700		
.565			.2690				
.600							.3640
.650						.3200	
.700	.2140				.2460		
.725				.2230			
.750						.2500	.2600
.760			.0000				
.775				.1860	.1950		
.808			.1480				
.834	.1800						
.850				.1310	.1480	.1650	
.857			.0000				
.865	.1430						
.900	.1320			.0870			.1430
.905			.1010				
.950				.0620	.0780	.1010	
.953			.0740				
.965	.0970						

MACH (2) = 3.502 BETA (1) = -5.540

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0410	-.0120	.2960	1.2910	1.2160	.9340	.8960
.050				.6180	.6280	.5440	.5650
.081			.4270				
.086		.2510					
.094	.2420						
.150				.5010	.5320	.5520	.5490
.177			.4350				
.229	.2480						
.246		.3090					
.250				.4510	.4740	.5250	.5390
.362	.2630						
.400				.4260	.5430		.5240
.402			.3260				
.497	.2250						
.550				.3870	.4870		
.565			.2980				
.600							.4190
.650						.3760	
.700	.2150				.3000		
.725				.2380			
.750						.2980	.3210
.760			.0000				
.775				.1970	.2360		

AMES 67-707 2412 -02A LOWER WING (R20L23)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -2.540	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.808			.1310				
	.834	.1610						
	.850				.1420	.1830	.2110	
	.857			.0000				
	.865	.1240						
	.900	.1110			.1000			.2100
	.905			.0940				
	.950				.0700	.1090	.1500	
	.953			.0660				
	.965	.0830						
MACH (2) = 3.502 BETA (2) = .420	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.003	-.0770	-.0740	.0700	.9140	.9020	.9220	.8510
	.050				.5090	.5510	.5640	.6060
	.088			.3210				
	.096		.1930					
	.104	.1770						
	.150				.4020	.4920	.5200	.5560
	.177			.3330				
	.209	.1890						
	.246		.2260					
	.311				.3670	.4280	.4830	.5110
	.362	.2080						
	.400				.3540	.4810		.4970
	.472			.2610				
	.487	.1830						
	.550				.3290	.3840		
	.565			.2440				
	.600							.3810
	.650						.3410	
	.700	.1840				.2680		
	.725				.2090			
	.750						.2690	.2810
	.760			.0000				
	.775				.1730	.2080		
	.808			.1310				
	.834	.1430						
	.850				.1240	.1600	.1890	
	.857			.0000				
	.865	.1140						
	.900	.1010			.0850			.1670
	.905			.0840				
	.950				.0620	.0890	.1260	
	.953			.0580				

AMES 87-707 OA12 02A LOWER WING (RBGL23)

SECTION (1)LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = .420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0780						

MACH (2) = 3.502 BETA (3) = 6.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0920	-.1020	-.0590	.5690	.6140	.6370	.5940
.050				.4030	.4660	.4840	.5220
.081			.2120				
.086		.1010					
.094	.1120						
.150				.3150	.4010	.4320	.4660
.177			.2590				
.229	.1360						
.246		.1630					
.250				.2900	.3450	.3960	4380
.362	.1600						
.400				.2800	.4000		.4380
.402			.2150				
.497	.1480						
.550				.2660	.3200		
.565			.2070				
.600							.3270
.650						.276	
.700	.1590				.2140		
.725				.1790			
.750						.2130	.2420
.760			.0000				
.775				.1480	.1620		
.808			.1120				
.834	-1340						
.850				.1040	.1210	.1460	
.857			.0000				
.865	.1090						
.900	.0980			.0750			.1390
.905			.0790				
.950				.0510	.0620	.0920	
.953			.0630				
.965	.0690						

AMES 87-707 C412 C3A UPPER WING (RB6U01) (16 MAY 73)

PL[illegible]TA

PARAMETRIC DATA

SREF = 2.481[illegible] SQ.FT. XMRP = 32.3000 INCHES
LREF = 59.8[illegible] INCHES YMRP = .0000 INCHES
BREF = 59.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

BETA = .000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.493 ALPHA (1) = -.090

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0060	.0030	.2530	.8070	.7370	.7500	.7500
.050				.1560	.2190	.2500	.2690
.091			.0640				
.086		.0330					
.094	.0180						
.150				-.0110	.0460	.0910	.0940
.177			-.0290				
.229	.0080						
.246		-.0230					
.250				-.0960	-.0550	-.0090	.0000
.362	-.0110						
.400				-.1520	-.1220		-.0540
.402			-.0990				
.497	-.0430						
.550				-.1750	-.1470		
.565			-.1220				
.600							-.1220
.650						-.1330	
.700	-.0760				-.1640		
.725				-.1820			
.750						-.1540	-.1490
.760			-.1020				
.775				-.1770	-.1680		
.808			-.0790				
.834	-.0340						
.850				-.1470	-.1620	-.1480	
.857			-.0810				
.865	-.0250						
.900	-.0080			-.1160			-.1280
.905			-.0830				
.950				-.0880	-.1510	-.1390	
.953			-.0680				
.965	.0170						

MACH (1) = 2.498 ALPHA (2) = 4.960

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0240	-.0410	.2360	.8220	.7420	.7720	.7530
.050				.0150	.0800	.1340	.1860
.081			-.0390				
.086		-.0120					
.094	-.0070						

AMES 87-707 OA12 02A UPPER WING (SBGUD1)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (2) = 4.960

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0980	-.0370	.0040	.0180
.177			-.1130				
.229	-.0220						
.246		-.0730					
.250				-.1550	-.1170	-.0720	-.0590
.362	-.0500						
.400				-.1930	-.1660		-.1030
.402			-.1540				
.497	-.0820						
.550				-.2120	-.1800		
.565			-.1660				
.600							-.1520
.650						-.1620	
.700	-.1170				-.1860		
.725				-.2080			
.750						-.1780	-.1680
.760			-.1520				
.775				-.2050	-.1820		
.808			-.1460				
.834	-.1000						
.850				-.1980	-.1780	-.1720	
.857			-.1610				
.865	-.0840						
.900	-.0660			-.1860			-.1610
.905			-.1620				
.950				-.1710	-.1720	-.1660	
.953			-.1520				
.965	-.0250						

MACH (1) = 2.498 ALPHA (3) = 9.970

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1230	-.1310	.0410	.7370	.7000	.7310	.6900
.050				-.0090	-.0270	.0370	.0830
.081			-.1430				
.096		-.0970					
.094	-.1030						
.150				-.1690	-.1130	-.0650	-.0460
.177			-.1610				
.229	-.1020						
.245		-.1180					
.250				-.2010	-.1650	-.1240	-.1110
.362	-.0970						
.400				-.2200	-.2010		-.1430
.402			-.1790				
.497	-.1300						

AMES [illegible] C-12 C2A UPPER WING (REQ.T1)

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (3) = 9.970

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2200	-.2050		
.565			-.1890				
.600							-.1770
.650						-.1860	
.700	-.1620				-.1970		
.725				-.2220			
.750						-.1990	-.1930
.760			-.1840				
.775				-.2210	-.1960		
.808			-.1790				
.834	-.1650						
.850				-.2200	-.1970	-.1960	
.857			-.1920				
.865	-.1520						
.900	-.1370			-.2140			-.1870
.905			-.2050				
.950				-.2000	-.1930	-.1910	
.953			-.2060				
.965	-.0970						

MACH (1) = 2.498 ALPHA (4) = 14.890

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1630	-.1640	-.0550	.6480	.6520	.6730	.5950
.050				-.1550	-.0950	-.0420	-.0130
.081			-.1600				
.086		-.1370					
.094	-.1490						
.150				-.2010	-.1510	-.1150	-.1020
.177			-.1710				
.229	-.1440						
.246		-.1480					
.250				-.2210	-.1910	-.1590	-.1490
.362	-.1470						
.400				-.2250	-.2180		-.1710
.402			-.1890				
.497	-.1690						
.550				-.2230	-.2080		
.565			-.1960				
.600							-.1940
.650						-.2010	
.700	-.1900				-.2080		
.725				-.2230			
.750						-.2050	-.2010
.760			-.1930				
.775				-.2230	-.2050		

AMES 87-707 OA12 02A UPPER WING (RB3U01)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (4) = 14.690

Y/BW	.299	.354	.427	.534	.673	.780	.887
X/CW							
.808			-.1920				
.834	-.1890						
.850				-.2220	-.2050	-.2070	
.857			-.2090				
865	-.1840						
.900	-.1750			-.2180			-.1910
.905			-.2050				
.950				-.2070	-.2000	-.2040	
.953			-.1950				
.965	-.1450						

MACH (1) = 2.498 ALPHA (5) = 13.670

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1660	-.1910	-.0920	.5430	.5780	.5750	.4660
.050				-.1850	-.1460	-.1070	- 0930
.081			-.1960				
.086		-.1790					
.094	-.1870						
.150				-.2160	-.1810	-.1500	-.14.3
.177			-.2030				
.229	-.1910						
.246		-.1930					
.250				-.2240	-.2100	-.1830	-.1760
.302	-.1510						
.400				-.2240	-.2240		-.1920
.402			-.2110				
.45	-.2010						
.550				-.2200	-.2150		
.56			-.2140				
.600							-.2050
.650						-.2000	
.700	-.2140				-.2030		
.725				-.2220			
.750						-.2020	-.1970
.70			-.2030				
.775				-.2210	-.2040		
.808			-.2060				
.8	-.2040						
.850				-.2010	-.2030	-.2030	
.857			- 2040				
905	.1910						
.90	-.1930			-.2185			-.2020
.905			-.2070				
.950				-.2170	-.2020	-.2040	
.953			-.2040				

MES 67-707 0A12 02A UPPER WING (REV 01)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.495 ALPHA (5) = 13.870

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.955	-.1680						

MACH (2) = 3.502 ALPHA (1) = -.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0060	.0110	.2100	.8220	.7820	.8220	.8080
.050				.1650	.2000	.2730	.3250
.081			.0740				
.086		.0370					
.094	.0320						
.150				.0070	.0520	.1170	.1310
.177			.0050				
.229	.0290						
.246		.0030					
.250				-.0630	-.0300	.0340	.0460
.362	.0090						
.400				-.1090	-.0810		.0000
.402			-.0480				
.497	-.0160						
.550				-.1300	-.0710		
.565			-.0650				
.600							-.0490
.650						-.0560	
.700	-.0420				-.0810		
.725				-.1370			
.750						-.0760	-.0720
.760			-.0660				
.775				-.1330	-.0850		
.808			-.0620				
.834	-.0280						
.850				-.1270	-.0850	-.0760	
.857			-.1090				
.865	-.0180						
.900	-.0090			-.1210			-.0630
.905			-.1070				
.950				-.1110	-.0810	-.0680	
.953			-.1000				
.965	.0070						

MACH (2) = 3.502 ALPHA (2) = 5.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0130	-.0080	.2280	.8620	.8240	.8490	.8100
.050				.0830	.1350	.1940	.2380
.081			.0060				
.086		.0080					
.094	.0130						

AMES 87-707 OA12 OJA UPPER WING (RBQUD1)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (2) = 5.173

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0260	.0190	.0590	.0740
.177			-.0450				
.229	.0070						
.246		-.0310					
.250				-.0770	-.0450	-.0090	.0030
.362	-.0200						
.400				-.1070	-.0840		-.0350
.402			-.0740				
.497	-.0440						
.550				-.1210	-.0880		
.565			-.0820				
.600							-.0700
.650						-.0740	
.700	-.0630				-.0950		
.725				-.1200			
.750						-.0900	-.0600
.760			-.0810				
.775				-.1190	-.0980		
.808			-.0820				
.834	-.0630						
.850				-.1170	-.0980	-.0870	
.857			-.0990				
.865	-.0550						
.900	-.0460			-.1130			-.0780
.905			-.1100				
.950				-.1060	-.0930	-.0850	
.953			-.1080				
.965	-.0260						

MACH (2) = 3.502 ALPHA (3) = 10.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0670	-.0650	.1090	.8790	.8490	.8670	.7980
.050				-.0210	.0440	.1330	.1650
.081			-.0600				
.086		-.0420					
.094	-.0460						
.150				-.1020	-.0490	.0210	.0340
.177			-.0790				
.229	-.0470						
.246		-.0560					
.250				-.1370	-.1030	-.0360	-.0240
.362	-.0500						
.400				-.1520	-.1340		-.0550
.402			-.0870				
.497	-.0660						

AMES 87-707 OA12 02A UPPER WING (REV001)

SECTION (1)UPPER W ING DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (3) = 10.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				- 1600	-.1000		
.565			-.0920				
.600							-.0840
.650						-.0850	
.700	-.0800				-.1020		
.725				-.1610			
.750						-.0970	-.0900
.760			-.0920				
.775				-.1610	-.1030		
.808			-.0870				
.834	-.0850						
.850				-.1610	-.1020	-.1000	
.857			-.1320				
.865	-.0840						
.900	-.0850			-.1600			-.0910
.905			-.1460				
.950				-.1550	-.0990	-.0980	
.953			-.1490				
.965	-.0690						

MACH (2) = 3.502 ALPHA (4) = 15.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0770	-.0760	.0470	.8790	.8700	.882	.7750
.050				-.0430	.0260	.093	.1180
.081			-.0810				
.086		-.0680					
.094	-.0700						
.150				-.0980	-.0480	.0000	.0120
.177			-.0860				
.229	-.0690						
.246		-.0740					
.250				-.1210	-.0930	-.0490	-.0380
.362	-.0680						
.400				-.1330	-.1170		-.0660
.402			-.0880				
.497	-.0700						
.550				-.1320	-.1020		
.565			-.0900				
.600							-.0870
.650						-.0910	
.700	-.0860				-.1030		
.725				-.1330			
.750						-.1000	-.0930
.760			-.0900				
.775				-.1300	-.1030		

AMES 87-707 OA12 O2A UPPER WING (PBQU01)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (4) = 15.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0890				
.834	-.0880						
.850				-.1280	-.1010	-.1010	
.857			-.1200				
.865	-.0870						
.900	-.0960			-.1280			-.0950
.905			-.1240				
.950				-.1280	-.1010	-.1000	
.953			-.1240				
.965	-.0780						

MACH (2) = 3.502 ALPHA (5) = 20.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0850	-.0850	.0220	.8440	.8670	.8690	.5780
.050				-.0690	-.0120	.0440	.0520
.081			-.0870				
.086		-.0780					
.094	-.0780						
.150				-.1070	-.0670	-.0220	-.0210
.177			-.0900				
.229	-.0800						
.246		-.0800					
.250				-.1270	-.1030	-.0690	-.0590
.362	-.0790						
.400				-.1290	-.1040		-.0820
.402			-.0900				
.497	-.0840						
.550				-.1300	-.1040		
.555			-.0910				
.600							-.0980
.650						-.0950	
.700	-.0890				-.1040		
.725				-.1310			
.750						-.1030	-.0960
.760			-.0890				
.775				-.1280	-.1040		
.808			-.0880				
.834	-.0880						
.850				-.1290	-.1040	-.1050	
.857			-.1170				
.865	-.0880						
.900	-.0870			-.1290			-.1030
.905			-.1240				
.950				-.1250	-.1040	-.1030	
.953			-.1220				

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A UPPER WING (RBOU01)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (5) = 20.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0770						

AMES 87-707 CW12 02A UPPER WING (RBQU02) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -3.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0270	.0260	.2940	.9130	.8450	.8490	.8550
.050				.2480	.2930	.3100	.3510
.081			.1180				
.086		.0630					
.094	.0520						
.150				.0400	.1030	.1360	.1340
.177			-.0010				
.229	.0380						
.246		-.0010					
.250				-.0590	-.0120	.0210	.0300
.362	.0130						
.400				-.1280	-.0930		-.0300
.402			-.0940				
.497	-.0380						
.550				-.1590	-.1340		
.565			-.1230				
.600							-.1050
.650						-.1220	
.700	-.0740				-.1530		
.725				-.1730			
.750						-.1410	-.1320
.760			-.1060				
.775				-.1710	-.1550		
.808			-.0790				
.834	-.0260						
.850				-.1500	-.1500	-.1330	
.857			-.0700				
.865	-.0120						
.900	.0100			-.1150			-.1140
.905			-.0680				
.950				-.0760	-.1410	-.1190	
.953			-.0620				
.965	.0470						

MACH (1) = 2.498 BETA (2) = 3.080

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0160	-.0080	.2090	.7280	.6620	.6760	.6690
.050				.1020	.1650	.2020	.2350
.081			.0320				
.086		.0080					
.094	-.0030						

AMES 97-707 C-12 O2A UPPER WING (RB0U02)

SECTION (9) LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = 3.080

X/CW \ Y/BW	.299	.364	.427	.534	.675	.780	.887
.150				-.0370	.0180	.0550	.0600
.177			-.0370				
.229	-.0080						
.246		-.0310					
.250				-.1040	-.0720	-.0380	-.0260
.362	-.0120						
.400				-.1490	-.1290		-.0770
.402			-.0930				
.497	-.0410						
.550				-.1640	-.1550		
.565			-.1130				
.600							-.1330
.650						-.1480	
.700	-.0730				-.1690		
.725				-.1670			
.750						-.1590	-.1530
.760			-.0840				
.775				-.1590	-.1710		
.808			-.0670				
.834	-.0190						
.850				-.1280	-.1610	-.1530	
.857			-.0740				
.865	-.0180						
.900	-.0060			-.1070			-.1370
.905			-.0730				
.950				-.0950	-.1500	-.1520	
.953			-.0510				
.965	.0020						

MACH (2) = 3.502 BETA (1) = -3.410

X/CW \ Y/BW	.299	.364	.427	.534	.675	.780	.887
.000	.0330	.0370	.2840	.9780	.9240	.9870	1.0040
.050				.2600	.2980	.3530	.4130
.081			.1160				
.086		.0680					
.094	.0540						
.150				.0680	.1190	.1650	.1780
.177			.0280				
.229	.0450						
.246		.0200					
.250				-.0150	.0240	.0650	.0820
.362	.0230						
.400				-.0710	-.0380		.0250
.402			-.0450				
.497	-.0080						

AMES 87-707 OA12 02A UPPER WING (PRESUO2)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -3.410

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.550				-.0960	-.0570		
.565			-.0970				
.600							-.0350
.650						-.0460	
.700	-.0340				-.0720		
.725				-.1080			
.750						-.0660	-.0620
.760			-.0670				
.775				-.1100	-.0800		
.808			-.0620				
.834	-.0250						
.850				-.1040	-.0760	-.0670	
.857			-.0800				
.865	-.0110						
.900	.0010			-.0950			-.0120
.905			-.0750				
.950				-.0820	-.0720	-.0580	
.953			-.0680				
.965	.0270						

MACH (2) = 3.502 BETA (2) = 3.190

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0170	-.0160	.1360	.6660	.6260	.00	.6700
.050				.1180	.15[illegible]	[illegible]	.2430
.081			.0310				
.086		.0020					
.094	.0040						
.150				-.0020	.1410	.0730	.0450
.177			-.0180				
.229	.0010						
.246		-.0160					
.250				-.0590	-.0270	.0070	.0150
.362	-.0090						
.400				-.0930	-.0700		-.0230
.402			-.0590				
.497	-.0290						
.550				-.1070	-.0830		
.565			-.0730				
.600							-.0650
.650						-.0700	
.700	-.0440				-.0310		
.725				-.1090			
.750						-.0860	-.0820
.760			-.0700				
.775				-.1090	-.0970		

...ES 87-707 0812 02A UPPER WING (RBQU02)

SECTION (1)UPPER W 36 DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = 3.190

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0620				
.834	-.0400						
.850				-.1030	-.0970	-.0890	
.857			-.0800				
.865	-.0300						
.900	-.0220			-.0950			-.0780
.905			-.0780				
.950				-.0880	-.0900	-.0820	
.953			-.0710				
.965	-.0110						

AMES 87-707 OA12 02A UPPER WING (PBQU03) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = .000 RUDDLR = 0.000

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0330	-.0150	.3430	1.0630	.9740	1.0020	.9590
.050				.0330	.1040	.1650	.2180
.081			-.0510				
.086		.0000					
.094	.0070						
.150				-.0900	-.0220	.0140	.0290
.177			-.1250				
.229	.0130						
.246		-.0750					
.250				-.1530	-.1050	-.0720	-.0550
.362	-.0190						
.400				-.1930	-.1580		-.1070
.402			-.1560				
.497	-.0630						
.550				-.2060	-.1730		
.565			-.1690				
.600							-.1500
.650						-.1650	
.700	-.1100				-.1930		
.725				-.2000			
.750						-.1810	-.1690
.760			-.1690				
.775				-.1970	-.1810		
.809			-.1640				
.834	-.1200						
850				-.1970	-.1780	-.1720	
.857			-.1720				
.865	-.1110						
.900	-.0980			-.1910			-.1560
.905			-.1780				
.950				-.1810	-.1730	-.1660	
.953			-.1750				
.965	-.0720						

MACH (1) = 2.498 BETA (2) = -3.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0860	-.0870	.1970	.8970	.6420	.6960	.8200
.050				-.0370	.0380	.0980	.1410
.08.			-.1040				
.0..		-.0470					
.094	-.0350						

MDAC 87-707 (M-2 C2A UPPER WING (REDUCED)

SECTION [illegible] DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = 3.020

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.131				-.1350	-.0710	-.0270	-.0080
.177			-.1470				
.229	-.0830						
.246		-.1030					
.250				-.1810	-.1360	-.0980	-.0860
.362	-.0560						
.400				-.2100	-.1630		-.1240
.402			-.1710				
.497	-.1010						
.530				-.2160	-.1940		
.565			-.1810				
.600							-.1670
.650						-.1770	
.700	-.1400				-.1900		
.725				-.2150			
.750						-.1910	-.1840
.760			-.1820				
.775				-.2160	-.1890		
.808			-.1790				
.834	-.1510						
.850				-.2080	-.1890	-.1850	
.857			-.2020				
.865	-.1430						
.900	-.1300			-.2020			-.1740
.905			-.2010				
.950				-.1890	-.1850	-.1810	
.953			-.1930				
.965	-.0690						

MACH (1) = 2.498 BETA (3) = 3.020

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.1360	-.1450	-.0710	.5950	.5940	.6220	.5750
.050				-.1410	-.0720	-.0100	.0310
.081			-.1620				
.086		-.1350					
.094	-.1400						
.150				-.1900	-.1380	-.0930	-.0780
.177			-.1770				
.229	-.1490						
.246		-.1510					
.250				-.2180	-.1820	-.1470	-.1300
.362	-.1330						
.400				-.2220	-.2130		-.1570
.402			-.1950				
.497	-.1610						

AMES 87-707 OA12 02A UPPER WING (RBSU03)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = 3.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2200	-.2040		
.565			-.2000				
.600							-.1870
.650						-.1910	
.700	-.1830				-.2020		
.725				-.2190			
.750						-.1940	-.2000
.760			-.1890				
.775				-.2170	-.2000		
.808			-.1880				
.834	-.1650						
.850				-.2150	-.1960	-.1960	
.857			-.1810				
.865	-.1470						
.900	-.1340			-.2080			-.1950
.905			-.1900				
.950				-.2040	-.1970	-.1920	
.953			-.1810				
.965	-.1140						

MACH (1) = 2.498 BETA (4) = 6.200

Y/BW	.299	.364	.427	.534	.673	.780	
X/CW							
.000	-.1410	-.1570	-.1420	.4480	.4750	[illegible]	.4590
.050				-.1730	-.11[illegible]	[illegible]	-.0300
.081			-.1660				
.086		-.1530					
.094	-.1580						
.150				-.2080	-.1640	-.1260	-.1100
.177			-.1810				
.229	-.1690						
.246		-.1710					
.250				-.2170	-.1960	-.1680	-.1520
.362	-.1620						
.400				-.2170	-.2180		-.1770
.402			-.1940				
.497	-.1710						
.550				-.2150	-.2020		
.565			-.1990				
.600							-.1860
.650						-.1880	
.700	-.1770				-.2010		
.725				-.2130			
.750						-.1930	-.1650
.760			-.1950				
.775				-.2080	-.1990		

MES 87-707 C... 02A UPPER WING (RESULTS)

...ION (UPPER) DEPENDENT VARIABLE CP

	Y/BW	.299	.364	.427	.534	.673	.780	.887
MACH (1) = 2.409 ...A (4) = 6.200	X/CW							
	.808			-.1910				
	.834	-.1510						
	.850				-.2060	-.1990	-.1950	
	.857			-.1940				
	.865	-.1400						
	.900	-.1310			-.2010			-.1890
	.905			-.1940				
	.950				-.1940	-.1920	-.1930	
	.953			-.1860				
	.965	-.1150						
MACH (2) = 3.502 BETA (1) = -6.740	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.0060	.0300	.4080	1.2550	1.1750	1.0840	.9300
	.050				.1490	.2110	.2390	.1920
	.081			.0180				
	.086		.0280					
	.094	.0240						
	.150				.0020	.0670	.0820	.0570
	.177			-.0460				
	.229	.0250						
	.246		-.0260					
	.250				-.0560	-.0160	.0050	.0030
	.362	.0040						
	.400				-.0920	-.0620		-.0260
	.402			-.0760				
	.497	-.0270						
	.550				-.1070	-.0860		
	.565			-.0840				
	.600							-.0600
	.650						-.0680	
	.700	-.0570				-.0940		
	.725				-.1130			
	.750						-.0820	-.0750
	.760			-.0850				
	.775				-.1110	-.0920		
	.808			-.0830				
	.834	-.0660						
	.850				-.1120	-.0890	-.0800	
	.857			-.0990				
	.865	-.0640						
	.900	-.0600			-.1090			-.0680
	.905			-.1000				
	.950				-.1040	-.0850	-.0770	
	.953			-.0970				

AMES 87-707 OA12 OEA UPPER WING (PDBU03)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.740

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.965	-.0340						

MACH (2) = 3.502 BETA (2) = -3.460

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.000	-.0430	-.0230	.2550	1.0580	1.0030	1.0320	.9680
.050				.0690	.1320	.1920	.2310
.081			-.0280				
.086		-.0120					
.094	-.0210						
.150				-.0420	.0160	.0570	.0670
.177			-.0590				
.229	-.0120						
.246		-.0450					
.250				-.0860	-.0510	-.0110	-.0050
.362	-.0260						
.400				-.1130	-.0890		-.0410
.402			-.0850				
.497	-.0470						
.550				-.1260	-.0940		
.565			-.0900				
.600							-.0750
.650						-.0760	
.700	-.0720				-.1010		
.725				-.1270			
.750						-.0950	-.0880
.760			-.0890				
.775				-.1240	-.0990		
.808			-.0900				
.834	-.0820						
.850				-.1250	-.0950	-.0900	
.857			-.1140				
.865	-.0900						
.900	-.0790			-.1240			-.0860
.905			-.1180				
.950				-.1170	-.0930	-.0900	
.953			-.1150				
.965	-.0560						

MACH (2) = 3.502 BETA (3) = 3.140

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.000	-.0740	-.0850	-.0520	.6810	.6810	.7040	.6630
.050				-.0510	.0130	.0740	.1060
.081			-.0790				
.086		-.0640					
.094	-.0660						

AMES 87-707 OA12 02A UPPER WING (PBQ003)

SECTION (1)UPPER WI DEPENDENT VARIABLE CP

MACH (2) = 3.472 BETA (3) = 3.140

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.150				-.0980	-.0540	-.0580	.0040
.177			-.0840				
.229	-.0680						
.246		-.0700					
.250				-.1210	-.0930	-.0560	-.0440
.362	-.0700						
.400				-.1310	-.1200		-.0690
.402			-.0940				
.497	-.0780						
.550				-.1320	-.1030		
.565			-.0950				
.600							-.0930
.650						-.0950	
.700	-.0880				-.1050		
.725				-.1320			
.750						-.1040	-.0960
.760			-.0930				
.775				-.1320	-.1040		
.808			-.0920				
.834	-.0920						
.850				-.1310	-.1060	-.1040	
.857			-.1170				
.865	-.0880						
.950	-.0810			-.1290			-.1010
.905			-.1220				
.950				-.1250	-.1050	-.1040	
.953			-.1230				
.965	-.0690						

MACH (2) = 3.502 BETA (4) = 6.440

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0740	-.0690	-.0610	.5020	.5440	.5700	.5360
.050				-.0850	-.0310	.0310	.0600
.081			-.0800				
.086		-.0730					
.094	-.0700						
.150				-.1120	-.0770	-.0310	-.0190
.177			-.0850				
.229	-.0730						
.246		-.0780					
.250				-.1270	-.1060	-.0670	-.0511
.362	-.0760						
.400				-.1280	-.1230		-.0790
.402			-.0880				
.497	-.0820						

.MES 87-707 CA-2 .02A UPPER WING (.82U03)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 6.440

X/CW	Y/SW .299	.304	.427	.514	.673	.780	.887
.540				-.1270	-.1010		
.565			-.0900				
.600							-.0960
.650						-.0970	
.700	-.0870				-.1040		
.725				-.1270			
.750						-.1030	-.0930
.760			-.0870				
.775				-.1270	-.1030		
.800			-.0900				
.810	-.0830						
.850				-.1260	-.1040	-.1020	
.875			-.1130				
.900	-.0750						
.910	-.0660			-.1260			-.0940
.925			-.1220				
.950				-.1240	-.1010	-.1020	
.975			.1190				
.990	-.0650						

NES 87-70° OA12 02A UPPER WING (RBGLC4) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 22.8400 INCHES YMRP = .0000 INCHES
BREF = 39.6490 INCHES ZMRP = .0000 INCHES
SCALE = .0010 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -8.490

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1410	-.1350	.0690	.6920	.8770	.8750	.7440
.050				-.1280	-.0710	-.0140	.0060
.081			-.1510				
.086		-.1160					
.094	-.1310						
.150				-.1900	-.1390	-.0930	-.0840
.177			-.1680				
.229	-.1300						
.246		-.1310					
.250				-.2180	-.1670	-.1440	-.1350
.362	-.1240						
.400				-.2200	-.2160		-.1590
.402			-.1920				
.497	-.1580						
.550				-.2190	-.1910		
.565			-.1980				
.600							-.1870
.650						-.1840	
.700	-.1840				-.1900		
.725				-.2200			
.750						-.1910	-.1970
.760			-.1960				
.775				-.2210	-.1930		
.808			-.1910				
.834	-.1970						
.850				-.2180	-.1900	-.1940	
.857			-.2000				
.865	-.1840						
.900	-.1720			-.2150			-.1830
.905			-.1950				
.950				-.2030	-.1880	-.1930	
.953			-.1750				
.965	-.1290						

MACH (1) = 2.498 BETA (2) = -3.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1720	-.1680	-.0200	.7150	.7260	.7260	.5970
.050				-.1630	-.1150	-.0630	-.0500
.081			-.1720				
.086		-.1520					
.094	-.1630						

AMES 87-707 OA12 02A UPPER WING (PSGU04)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.510

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2030	-.1650	-.1260	-.1190
.177			-.1980				
.229	-.1550						
.246		-.1640					
.250				-.2300	-.2040	-.1670	-.1560
.362	-.1690						
.400				-.2250	-.2250		-.1780
.402			-.2040				
.497	-.1840						
.550				-.2240	-.2020		
.565			-.2060				
.600							-.1960
.650						-.1950	
.700	-.2020				-.2020		
.725				-.2270			
.750						-.2000	-.2020
.760			-.2070				
.775				-.2270	-.1980		
.808			-.2040				
.834	-.2090						
.850				-.2250	-.2000	-.2010	
.857			-.2130				
.865	-.1960						
.900	-.1910			-.2250			-.1970
.905			-.2050				
.950				-.2170	-.1980	-.2000	
.953			-.1890				
.965	-.1540						

MACH (1) = 2.498 BETA (3) = 3.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2030	-.2120	-.1460	.3960	.4480	.4380	.3380
.050				-.2090	-.1740	-.1390	-.1350
.081			-.1950				
.086		-.1840					
.094	-.1870						
.150				-.2260	-.2010	-.1710	-.1650
.177			-.2010				
.229	-.1870						
.246		-.1930					
.250				-.2720	-.2210	-.1950	-.1880
.362	-.1830						
.400				-.2320	-.2300		-.2020
.402			-.2040				
.497	-.1960						

AMES 12-FT 2D12 O2A UPPER WING (RB0104)

SECTION (1) PAGE (1) DEPENDENT VARIABLE CP

MACH (1) = [illegible] BETA (3) = 3.050

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.550				-.2300	-.2090		
.565			-.2050				
.600							-.2100
.650						-.2060	
.700	-.2040				-.2100		
.725				-.2310			
.750						-.2100	-.2040
.760			-.1980				
.775				-.2300	-.2110		
.808			-.1960				
.834	-.2000						
.850				-.2270	-.2110	-.2110	
.857			-.2050				
.865	-.1910						
.900	-.1870			-.2240			-.2110
.905			-.2100				
.950				-.2200	-.2080	-.2100	
.953			-.2070				
.965	-.1620						

MACH (1) = 2.498 BETA (4) = 6.240

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.000	-.1990	-.2100	-.1680	.2610	.3270	.3120	.2260
.050				-.2210	-.1960	-.1660	-.1640
.081			-.2140				
.086		-.2060					
.094	-.2100						
.150				-.2300	-.2210	-.1900	-.1860
.177			-.2150				
.229	-.2060						
.246		-.2090					
.250				-.2310	-.2330	-.2020	-.1900
.362	-.2040						
.400				-.2300	-.2310		-.1870
.402			-.2110				
.497	-.2120						
.550				-.2290	-.2000		
.565			-.2040				
.600							-.1860
.650						-.1960	
.700	-.2030				-.1970		
.725				-.2230			
.750						-.1970	-.1880
.760			-.1990				
.775				-.2130	-.1970		

AMES 87-737 OA12 02A UPPER WING (F83U04)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1930				
.834	-.2000						
.850				-.2070	-.1990	-.1940	
.857			-.1850				
.865	-.2000						
.900	-.1960			-.2030			-.1890
.905			-.1930				
.950				-.1990	-.1980	-.1840	
.953			-.1860				
.985	-.1880						

MACH (2) = 3.502 BETA (1) = -6.710

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0620	-.0490	.2020	1.2520	1.0470	.8490	.7340
.050				.0110	.0610	.0370	.0000
.081			-.0730				
.086		-.0400					
.094	-.0500						
.150				-.0720	-.0270	-.0030	-.0390
.177			-.0800				
.229	-.0560						
.246		-.0540					
.250				-.1050	-.0800	-.0590	-.0710
.262	-.0520						
.400				-.1230	-.1070		-.0890
.402			-.0660				
.497	-.0680						
.550				-.1260	-.1040		
.565			-.0930				
.600							-.0930
.650						-.0860	
.700	-.0840				-.1020		
.725				-.1260			
.750						-.0960	-.0880
.760			-.0910				
.775				-.1250	-.1040		
.808			-.0870				
.834	-.0890						
.850				-.1220	-.1010	-.0920	
.857			-.1020				
.865	-.0980						
.900	-.0870			-.1170			-.0920
.905			-.1110				
.950				-.1130	-.0990	-.0960	
.953			-.1120				

WING 87- 17 CM12 02A UPPER WING (SOLID)

SECTION (1:UPPER) INDEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.710

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.055	-.0650						

MACH (2) = 3.502 BETA (2) = -3.430

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.000	-.0730	-.0660	.1030	1.0550	1.0290	.6010	.5420
.050				-.0270	.0430	.0690	.0180
.081			-.0790				
.086		-.0640					
.094	-.0670						
.150				-.0850	-.0340	-.0080	-.0350
.177			-.0810				
.229	-.0690						
.246		-.0490					
.251				-.1110	-.0810	-.0540	-.0610
.303	-.0690						
.403				-.1200	-.1060		-.0700
.442			-.0870				
.497	-.0790						
.550				-.1220	-.1020		
.755			-.0360				
.900							-.0850
.650						-.0900	
.700	-.0860				-.1020		
.754				-.1210			
.750						-.0980	-.0850
.754			-.0370				
.778				-.1220	-.1000		
.800			-.0350				
.804	-.0860						
.870				-.1210	-.0990	-.0970	
.897			-.0940				
.905	-.0830						
.907	-.0835			-.1200			-.0900
.931			-.1080				
.950				-.1170	-.0980	-.0980	
.953			-.1090				
.965	-.0710						

MACH (2) = 3.502 BETA (3) = 3.160

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.000	-.0950	-.1020	-.0400	.6590	.6770	.6860	.5950
.050				-.0860	-.0430	-.0020	.0160
.081			-.0940				
.086		-.0910					
.094	-.0860						

AMES 87-707 OM12 C2A UPPER WING (600004)

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = 3.160

Y/BW	.299	.364	.427	.534	.673	.780	.867
X/CW							
.150				-.1110	-.0800	-.0510	-.0410
.177			-.0950				
.229	-.0390						
.246		-.0910					
.250				-.1240	-.1070	-.0830	-.0730
.362	-.0890						
.400				-.1240	-.1220		-.0900
.402			-.0940				
.497	-.0940						
.550				-.1240	-.1160		
.565			-.0960				
.600							-.1030
.650						-.1040	
.700	-.0940				-.1090		
.725				-.1240			
.750						-.1070	-.0990
.760			-.0950				
.775				-.1240	-.1090		
.800			-.0950				
.834	-.0930						
.850				-.1240	-.1090	-.1090	
.857			-.0960				
.865	-.0900						
.900	-.0900			-.1240			-.1040
.905			-.1120				
.950				-.1220	-.1130	-.1130	
.953			-.1140				
.965	-.0870						

MACH (2) = 3.502 BETA (4) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.867
X/CW							
.000	-.0920	-.1010	-.0670	.4400	.5830	.6300	.4530
.050				-.1170	-.0900	-.0350	-.0200
.081			-.0950				
.086		-.0940					
.094	-.0910						
.150				-.1320	-.1090	-.0650	-.0570
.177			-.0900				
.229	-.0930						
.246		-.0940					
.250				-.1370	-.1270	-.0980	-.0810
.362	-.0930						
.400				-.1360	-.1350		-.0930
.402			-.0960				
.497	-.0960						

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 97-707 OA12 02A UPPER WING (RS0004)

SECTION (1)UPPER [illegible]

DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1370	-.1000		
.565			-.0960				
.600							-.1020
.650						-.0990	
.700	-.0950				-.1050		
.725				-.1350			
.750						-.1020	-.0960
.760			-.0940				
.775				-.1360	-.1030		
.808			-.0950				
.834	-.0940						
.850				-.1330	-.1030	-.1050	
.857			-.1200				
.865	-.0910						
.900	-.0910			-.1320			-.1060
.905			-.1260				
.950				-.1290	-.1020	-.1040	
.953			-.1260				
.965	-.0870						

AMES 87-757 GA12 GRA UPPER WING PROBE(16 JAN 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 33.8430 INCHES YMRP = .0000 INCHES
BREF = 89.8610 INCHES ZMRP = .0000 INCHES
SCALE = .0417 SCALE

PARAMETRIC DATA

ALPHA = .00 FLOSER = -20.000
ELEVON = .00 FLOSLR = 40.000

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0920	.0570	.3430	1.0280	.9570	.9670	.9650
.050				.3210	.3610	.3810	.4310
.081			.1740				
.086		.1130					
.094	.1000						
.150				.0890	.1450	.1740	.1820
.177			.0390				
.229	.0800						
.246		.0350					
.250				-.0260	.0200	.0550	.0810
.362	.0490						
.400				-.1090	-.0660		-.0070
.402			-.0700				
.497	-.0030						
.550				-.1430	-.1130		
.565			-.1040				
.600							-.0630
.650						-.1050	
.700	-.0480				-.1		
.725				-.1620			
.750						-.1250	-.1150
.760			-.0890				
.775				-.1370	-.1330		
.808			-.0570				
.834	-.0010						
.850				-.1440	-.1340	-.1170	
.857			-.0490				
.865	.0160						
.900	.0490			-.1060			-.0930
.905			-.0460				
.950				-.0930	-.1200	-.1090	
.955			-.0420				
.965	.0910						

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0250	.0270	.2920	.9060	.8390	.8490	.8450
.050				.2370	.2740	.3120	.3330
.081			.1220				
.086		.0670					
.094	.0580						

AMES 12-FOOT OA12 C2A UPPER WING (FBGU05)

SECTION (1) UPPER ... DEPENDENT VARIABLE CP

MACH (1) = 2.498 BE (2) = -3.300

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.150				.0280	.0900	.1280	.1310
.177			.0050				
.229	.0450						
.246		.0070					
.250				-.0710	-.0220	.0230	.0290
.362	.0170						
.400				-.1400	-.1010		-.0310
.402			-.0890				
.497	-.0240						
.550				-.1700	-.1330		
.565			-.1170				
.600							-.1070
.650						-.1200	
.700	-.0680				-.1500		
.725				-.1840			
.750						-.1390	-.1300
.760			-.0990				
.775				-.1600	-.1530		
.808			-.0730				
.834	-.0230						
.850				-.1610	-.1480	-.1300	
.857			-.0840				
.865	-.0060						
.900	.0160			-.1250			-.1120
.905			-.0850				
.950				-.0870	-.1380	-.1160	
.953			-.0840				
.965	.0520						

MACH (1) = 2.498 BETA (3) = -.160

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	.0020	.0090	.2600	.8110	.7370	.7510	.7370
.050				.1590	.2150	.2530	.2910
.081			.0670				
.086		.0310					
.094	.0180						
.150				-.0150	.0430	.0880	.0960
.177			-.0270				
.229	.0130						
.246		-.0220					
.250				-.0970	-.0570	-.0070	.0020
.362	-.0080						
.400				-.1550	-.1250		-.0520
.402			-.0990				
.497	-.0380						

AMES 87-707 OA12 02A UPPER WING (PBOU05)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

Y/BW	.299	.354	.427	.534	.673	.780	.887
X/CW							
.550				-.1780	-.1430		
.565			-.1210				
.600							-.1190
.650						-.1320	
.700	-.0760				-.1610		
.725				-.1870			
.750						-.1500	-.1420
.760			-.0990				
.775				-.1800	-.1620		
.808			-.0770				
.834	-.0330						
.850				-.1510	-.1530	-.1460	
.857			-.0780				
.865	-.0290						
.900	-.0060			-.1140			-.1240
.905			-.0800				
.950				-.0920	-.1480	-.1310	
.953			-.0730				
.965	.0170						

MACH (1) = 2.498 BETA (4) = 3.060

Y/CW	.299	.354	.427	.534	.673	.780	.887
X/CW							
.000	-.0110	-.0080	.0110	.0320	.0650	.0740	.1100
.050				.0950	.1500	.1700	.2340
.081			.0200				
.085		.0300					
.094	-.0100						
.100				-.0400	-.0130	.0470	.0570
.127			-.0510				
.200	-.0170						
.345		-.0410					
.250				-.1110	-.0770	-.0400	-.0250
.262	-.0260						
.400				-.1540	-.1320		-.0760
.402			-.1010				
497	-.0520						
.550				-.1730	-.1630		
.565			-.1240				
.600							-.1370
.650						-.1470	
.700	-.0620				-.1700		
.750				-.1720			
.760						-.1630	-.1520
.775			-.0910				
.808				-.1610	-.1710		

TABULATED PRESSURE DATA - CA12C

AMES 87-70T CA12 .02A UPPER WING (RBS105)

SECTION (1) FROM [illegible]

DEPENDENT VARIABLE CP

MACH (1) = [illegible] BETA (4) = 3.080

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0770				
.834	-.0320						
.850				-.1300	-.1650	-.1550	
.857			-.0800				
.865	-.0290						
.900	-.0140			-.1100			-.1410
.905			-.0740				
.950				-.0970	-.1510	-.1520	
.953			-.0580				
.965	-.0050						

MACH (1) = 2.498 BETA (5) = 6.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0300	-.0340	.1430	.6350	.5810	.5980	.5820
.050				.0340	.0950	.1400	.1860
.081			-.0070				
.086		-.0100					
.094	-.0210						
.150				-.0690	-.0250	.0130	.0250
.177			-.0570				
.229	-.0230						
.246		-.0350					
.250				-.1220	-.0990	-.0630	-.0500
.362	-.0180						
.400				-.1510	-.1440		-.0920
.402			-.0920				
.497	-.0420						
.550				-.1620	-.1620		
.565			-.1080				
.600							-.1480
.650						-.1530	
.700	-.0750				-.1730		
.725				-.1640			
.750						-.1690	-.1650
.760			-.0860				
.775				-.1460	-.1690		
.808			-.0780				
.834	-.0400						
.850				-.1120	-.1650	-.1640	
.857			-.0720				
.865	-.0400						
.900	-.0210			-.0930			-.1510
.905			-.0730				
.950				-.0770	-.1450	-.1530	
.953			-.0570				

AMES 67-707 OA12 O2A UPPER WING (RSQUOS)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.963	-.0040						

MACH (2) = 3.501 BETA (1) = -6.670

Y/BW	.299	.364	.427	.534	673	.780	.887
X/CW							
.000	.0720	.0790	.3800	1.1610	1.1080	1.1700	1.1730
.050				.3620	.4080	.4590	.5310
.081			.1650				
.086		.1040					
.094	.0880						
.150				.1290	.1880	.2260	.2450
.177			.0510				
.229	.0720						
.246		.0400					
.250				.0200	.0700	.1080	.1220
.362	.0430						
.400				-.0460	-.0050		.0540
.402			-.0420				
.497	.0020						
.550				-.0760	-.0430		
.565			-.0680				
.600							-.0190
.650						-.0370	
.700	-.0280				-.0600		
.725				-.0910			
.750						-.0510	-.0470
.760			-.0710				
.775				-.0950	-.0680		
.808			-.0580				
.834	-.0140						
.850				-.0890	-.0620	-.0510	
.857			-.0560				
.865	-.0010						
.900	.0130			-.0810			-.0350
.905			-.0450				
.950				-.0640	-.0530	-.0400	
.953			-.0370				
.965	.0500						

MACH (2) = 3.501 BETA (2) = -3.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0380	.0410	.2910	.9880	.9350	1.0710	.9660
.050				.2640	.3000	.3570	.4160
.081			.1120				
.086		.0620					
.094	.0500						

UPPER WING (BODY)

SECTION (1 CHORD 4) DEPENDENT VARIABLE CP

	Y/BW	.299	.364	.427	.534	.673	.780	.887
MACH (2) = 3.501 BETA (2) = -3.420	X/CW							
	.150				.0680	.1220	.1650	.1930
	.177			.0210				
	.229	.0390						
	.246		.0150					
	.250				-.0160	.0270	.0680	.0930
	.362	.0170						
	.400				-.0710	-.0370		.0300
	.402			-.0510				
	.497	-.0130						
	.550				-.0950	-.0570		
	.565			-.0720				
	.600							-.0340
	.650						-.0410	
	.700	-.0400				-.0700		
	.725				-.1090			
	.750						-.0630	-.0570
	.760			-.0760				
	.775				-.1100	-.0750		
	.808			-.0670				
	.834	-.0300						
	.850				-.1030	-.0750	-.0650	
	.857			-.0800				
	.855	-.0180						
	.900	-.0060			-.0950			-.0450
	.905			-.0740				
	.950				-.0830	-.0680	-.0570	
	.953			-.0660				
	.965	.0220						

	Y/BW	.299	.364	.427	.534	.673	.780	.887
MACH (2) = 3.501 BETA (3) = -.160	X/CW							
	.000	.0110	.0120	.2100	.8200	.7800	.6220	.8110
	.050				.1660	.2230	.2700	.3160
	.081			.0630				
	.086		.0270					
	.094	.0220						
	.150				.0290	.0760	.1100	.1260
	.177			-.0050				
	.229	.0130						
	.246		-.0060					
	.250				-.0420	-.0050	.0280	.0420
	.362	-.0030						
	.400				-.0850	-.0570		-.0050
	.402			-.0590				
	.497	-.0280						

AMES 87-707 OA12 C&A UPPER WING (RBQUO5)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1050	-.0760		
.565			-.0770				
.600							-.0530
.650						-.0620	
.700	-.0510				-.0870		
.725				-.1100			
.750						-.0790	-.0730
.760			-.0790				
.775				-.1070	-.0920		
.800			-.0720				
.834	-.0360						
.850				-.1040	-.0800	-.0770	
.857			-.0880				
.865	-.0270						
.900	-.0180			-.0950			-.0760
.905			-.0830				
.950				-.0860	-.0820	-.0680	
.953			-.0760				
.965	-.0010						

MACH (2) = 3.501 BETA (4) = 3.180

Y/BW	.299	.364	.427	.534	.673	.780	[illegible]
X/CW							
.000	-.0070	-.0050	.1500	.6790	.6500	.6750	.6700
.050				.1160	.1500	[illegible]	.2420
.081			.0200				
.096		-.0020					
.094	-.0050						
.150				-.0050	.0375	.0700	.0820
.177			-.0110				
.229	-.0100						
.246		-.0280					
.250				-.0590	-.0310	.0010	.0120
.362	-.0210						
.400				-.0950	-.0740		-.0250
.402			-.0700				
.497	-.0410						
.550				-.1020	-.0860		
.565			-.0850				
.600							-.0660
.650						-.0730	
.700	-.0610				-.0950		
.725				-.1120			
.750						-.0890	-.0830
.760			-.0830				
.775				-.1[illegible]	-.0980		

TABULATED PRESSURE DATA (A12C

WGS 67-707 GA12 OLA UPPER WING (PROG15)

SECTION (1) IS DEPENDENT VARIABLE CP

MACH (2) = [illegible] (4) = 3.180

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.808			-.0750				
.834	-.0480						
.850				-.1070	-.0950	-.0880	
.857			-.0870				
.865	-.0400						
.900	-.0330			-.1010			-.0770
.905			-.0840				
.950				-.0930	-.0900	-.0840	
.953			-.0760				
.965	-.0220						

MACH (2) = 3.501 BETA (5) = 6.530

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0250	-.0270	.0770	.5190	.5260	.5560	.5410
.050				.0500	.0970	.1410	.1780
.081			-.0110				
.086		-.0180					
.094	-.0190						
.150				-.0330	.0060	.0370	.0480
.177			-.0460				
.229	-.0230						
.246		-.0380					
.250				-.0740	-.0520	-.0190	-.0100
.362	-.0310						
.400				-.0980	-.0870		-.0400
.402			-.0710				
497	-.0460						
.550				-.1090	-.0950		
.565			-.0810				
.600							-.0760
.650						-.0800	
.700	-.0600				-.1000		
.725				-.1100			
.750						-.0930	-.0890
.760			-.0810				
.775				-.1090	-.1010		
.808			-.0770				
.834	-.0530						
.850				-.1030	-.0990	-.0940	
.857			-.0730				
.865	-.0450						
.900	-.0400			-.0980			-.0850
905			-.0670				
.950				-.0930	-.0940	-.0920	
.95.			-.0810				

WBS ARROW 2/19 C2A UPPER WING (PBQUOS)

SECTION 1 (UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.901 BETA (5. = 0.0) Y/SW .293 .3.. .427 .5.. 673 .780 .887

X/CW

.965 -.02*0

PARAMETRIC DATA

ALPHA = 17.000 RUDDER = -20.000
ELEVON = .000 RUDDLR = 45.000

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.320

Y/BW \ X/CW	.299	.354	.427	.534	.673	.780	.887
.000	-.0320	-.0120	.3450	1.0360	.9520	.9950	.9430
.050				.0350	.1050	.1600	.2150
.081			-.0480				
.086		.0000					
.094	.0080						
.130				-.0900	-.0260	.0100	.0270
.177			-.1270				
.229	.0130						
.246		-.0750					
.250				-.1520	-.1040	-.0720	-.0580
.362	-.0200						
.400				-.1910	-.1580		-.1020
.402			-.1550				
.497	-.0640						
.550				-.2060	-.1800		
.595			-.1690				
.600							-.1520
.650						-.1650	
.700	-.1140				-.1850		
.725				-.1980			
.750						-.1810	-.1690
.760			-.1710				
.775				-.1970	-.1800		
.808			-.1650				
.834	-.1200						
.850				-.1950	-.1790	-.1730	
.857			-.1810				
.865	-.1140						
.900	-.0990			-.1920			-.1560
.905			-.1760				
.950				-.1800	-.1740	-.1640	
.953			-.1750				
.965	-.0340						

MACH (1) = 2.498 BETA (2) = -3.340

Y/BW \ X/CW	.299	.354	.427	.534	.673	.780	.887
.000	-.0750	-.0780	.2020	.8990	.8360	.8730	.8150
.050				-.0290	.0410	.1020	.1510
.081			-.0990				
.086		-.0440					
.094	-.0260						

AMES 9'-70' C412 C2A UPPER WING (FB1JD6)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.340

Y/BW	.299	.364	.427	.534	.673	.780	.987
X/CW							
.150				-.1270	-.0630	-.0250	-.0190
.177			-.1430				
.229	-.0210						
.246		-.1910					
.250				-.1720	-.1300	-.0980	-.0840
.302	-.0850						
.400				-.2040	-.1730		-.1220
.402			-.1660				
.497	-.0960						
.550				-.2080	-.1830		
.565			-.1760				
.600							-.1640
.650						-.1770	
.700	-.1360				-.1910		
.725				-.2060			
.750						-.1910	-.1780
.760			-.1770				
.775				-.2060	-.1890		
.808			-.1740				
.834	-.1470						
.850				-.2010	-.1850	-.1630	
.857			-.1810				
.875	-.1390						
.900	-.1270			-.1930			-.1650
.905			-.1890				
.950				-.1810	-.1670	-.1470	
.953			-.1820				
.965	-.0950						

MACH (1) = 2.498 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.987
X/CW							
.000	-.1130	-.1220	.0580	.7450	.7050	.7390	.6940
.050				-.0670	-.0180	.7450	.0910
.081			-.1550				
.086		-.1100					
.094	-.1100						
.150				-.1590	-.1720	-.0690	-.0420
.177			-.1770				
.229	-.1100						
.246		-.1300					
.250				-.1930	-.1560	-.1230	-.1070
.302	-.1050						
.400				-.2120	-.1920		-.1370
.402			-.1920				
.497	-.1370						

(REVISED)

SECTION (1) BODY - DEPENDENT VARIABLE CP

MACH (1) = 2.438 BETA (3) = -.100 Y/BW .299 .364 .427 .534 .673 .780 .887
Y/CW
.550 -.2120 -.1990
.565 -.1980
.600 -.1730
.650 -.1840
.700 -.1740 -.1950
.725 -.2120
.750 -.1950 -.1890
.760 -.1940
.775 -.2110 -.1940
.808 -.1920
.834 -.1790
.850 -.2100 -.1940 -.1920
.857 -.1820
.865 -.1600
.900 -.1490 -.2070 -.1830
.905 -.1960
.950 -.1940 -.1880 -.1850
.953 -.1960
.965 -.1050

MACH (1) = 2.438 BETA (4) = 3.020 Y/BW .299 .364 .427 .534 .673 .780 .887
Y/CW
.000 -.1280 -.1360 -.0670 .6020 .5990 .6260 .5760
.050 -.1450 -.0800 -.0090 .0300
.081 -.1470
.086 -.1230
.094 -.1280
.150 -.1990 -.1440 -.0930 -.0770
.177 -.1640
.229 -.1290
.246 -.1370
.250 -.2260 -.1910 -.1430 -.1300
.362 -.1230
.400 -.2310 -.2190 -.1570
.402 -.1840
.497 -.1470
.550 -.2270 -.2020
.565 -.1900
.600 -.1870
.650 -.1900
.700 -.1690 -.1960
.725 -.2280
.750 -.1930 -.1980
.760 -.1760
.775 -.2250 -.1990

AMES 67-75? OA12 OBA UPPER WING (BSWDS6)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.020

Y/BW	.299	.364	.427	.534	.573	.780	.887
X/CW							
.808			-.1760				
.834	-.1540						
.850				-.2220	-.1970	-.1940	
.857			-.1920				
.865	-.1380						
.900	-.1240			-.2150			-.1940
.905			-.1960				
.950				-.2110	-.1940	-.1910	
.953			-.1900				
.985	-.1060						

MACH (1) = 2.498 BETA (4) = 6.210

Y/BW	299	.364	.427	.534	.573	.780	.887
X/CW							
.000	-.1370	-.1340	-.1340	.4520	.4780	.5030	.4190
.050				-.1690	-.1110	-.0640	-.0870
.081			-.1590				
.035		-.1440					
.094	-.1480						
.150				-.2030	-.1610	-.1260	-.1
.177			-.1740				
.223	-.1620						
.245		-.1640					
.250				-.2140	-.1960	-.1	.1520
.362	-.1520						
.400				-.2160	-.2		-.1760
.402			-.1850				
.497	-.1590						
.550				-.2150	-.1		
.505			-.1900				
.800							-.1960
.650						-.1680	
.700	-.1700				-.2		
.725				-.2110			
.750						-.1920	-.1970
.760			-.1850				
.775				-.2070	-.1		
.838			-.1820				
.834	-.1440						
.850				-.2030	-.1	-.1940	
.857			-.1850				
.865	-.1320						
.900	-.1240			-.2000			-.1970
.905			-.1910				
.950				-.1920	-.1	-.1930	
.953			-.1860				

(RBQU06)

SECTION (1) SREF

(5) =

MACH (2) = 3.501 BETA (1) =

Y/BW	.295	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1090						
Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0010	.0360	.0200	1.2700	1.1910	1.0380	.9340
.050				.1560	.2150	.2370	.1930
.081			.0230				
.086		.0330					
.094	.0300			.0040	.0710	.0830	.0530
.110			-.0430				
.169	.0310						
.246		-.0220		-.0570	-.0150	.0070	.0000
.253							
.362	.0090			-.0900	-.0620		-.0280
.400			-.0730				
.402							
.497	-.0230			-.1080	-.0830		
.550			-.0820				-.0600
.555						-.0680	
.800					-.0920		
.650				-.1120			
.700	-.0540					-.0860	-.0710
.725							
.750			-.0830				
.760				-.1110	-.0920		
.775			-.0820				
.809							
.834	-.0640			-.1080	-.0880	-.0780	
.850			-.0960				
.857							
.865	-.0610			-.1070			-.0650
.900	-.0570		-.0950				
.905				-.1010	-.0830	-.0730	
.950			-.0930				
.953							
.965	-.0300						

MACH (2) = 3.501 BETA (2) = -3.450

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0410	-.0200	.2660	1.0710	1.0140	1.0430	.9710
.050				.0770	.1440	.1970	.2350
.081			-.0240				
.086		-.0120					
.094	-.0200						

AMES 87-707 OA12 02A UPPER WING (RBQU06)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.450

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0360	.0230	.0600	.0670
.177			-.0660				
.229	-.0110						
.246		-.0460					
.250				-.0850	-.0450	-.0100	-.0030
.362	-.0250						
.400				-.1070	-.0850		-.0370
.402			-.0830				
.497	-.0500						
.550				-.1210	-.0920		
.565			-.0920				
.600							-.0720
.650						-.0770	
.700	-.0710				-.0990		
.725				-.1190			
.750						-.0900	-.0
.760			-.0910				
.775				-.1230	-.0960		
.809			-.0900				
.834	-.0800						
.850				-.1220	-.0930	-.0860	
.857			-.0970				
.865	-.0810						
.900	-.0770			-.1200			-.0840
.905			-.1070				
.950				-.1130	-.0	-.0850	
.953			-.1060				
.965	-.0570						

MACH (2) = 3.501 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0660	-.0640	.1100	.8760	.8450	.8620	.8050
.050				.0000	.0640	.1320	.1650
.081			-.0710				
.096		-.0540					
.094	-.0590						
.150				-.0810	-.0290	.0200	.0320
.177			-.0930				
.229	-.0630						
.246		-.0680					
.250				-.1140	-.0810	-.0360	-.0270
.362	-.0630						
.400				-.1320	-.1150		-.0570
.402			-.1020				
.497	-.0780						

(FEDUCS)

DEPENDENT VARIABLE CP

	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.550				-.1380	-.1030		
	.565			-.1070				
	.900							-.0840
	.650						-.0890	
	.700	-.0950				-.1040		
	.725				-.1400			
	.750						-.1010	-.0930
	.760			-.1050				
	.775				-.1380	-.1020		
	.808			-.1030				
	834	-.1000						
	.850				-.1410	-.1020	-.0990	
	.857			-.1100				
	.865	-.1010						
	.900	-.0980			-.1380			-.0930
	.905			-.1280				
	.950				-.1340	-.1010	-.0960	
	.953			-.1270				
	.965	-.0790						

MACH (2) = 3.501 BETA (4) = 3.140

	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.0790	-.0870	-.0060	.6740	.6770	.7000	.6520
	.050				-.0450	.0210	.0750	.1070
	.081			-.0780				
	.086		-.0660					
	.094	-.0650						
	.150				-.0940	-.0480	-.0110	.0040
	.177			-.0860				
	.229	-.0680						
	.246		-.0700					
	.250				-.1170	-.0890	-.0570	-.0430
	.362	-.0710						
	.400				-.1250	-.1130		-.0680
	.402			-.0930				
	.497	-.0780						
	.550				-.1250	-.1080		
	.565			-.0960				
	.600							-.0930
	.650						-.0960	
	.700	-.0890				-.1060		
	.725				-.1250			
	.750						-.1020	-.0980
	.760			-.0940				
	.775				-.1250	-.1050		

AMES E7-707 OA12 02A UPPER WING (PSQU06)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.140

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.808			-.0930				
.834	-.0910						
.850				-.1240	-.1050	-.1030	
.857			-.0980				
.865	-.0890						
.900	-.0830			-.1230			-.0990
.905			-.1130				
.950				-.1180	-.1040	-.1030	
.953			-.1160				
.965	-.0700						

MACH (2) = 3.501 BETA (5) = 6.440

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0870	-.1020	-.0740	.4870	.5290	.5590	.5170
.050				-.0260	-.0370	.0260	.0540
.081			-.0960				
.086		-.0880					
.094	-.0850						
.150				-.1140	-.0730	-.0370	-.03
.177			-.0990				
.229	-.0910						
.246		-.0950					
.250				-.1250	-.1040	-.0760	-.0630
.352	-.0930						
.400				-.1260	-.121.		-.0630
.402			-.1070				
.497	-.0980						
.550				-.1250	-.160		
.565			-.1060				
.600							-.0990
.650						-.1040	
.700	-.1030				-.1090		
.725				-.1250			
.750						-.1080	-.0950
.760			-.1080				
.775				-.1270	-.1100		
.808			-.1070				
.834	-.0990						
.850				-.1260	-.1070	-.1070	
.857			-.1160				
.865	-.0900						
.900	-.0830			-.1250			-.1030
.905			-.1210				
.950				-.1220	-.1070	-.1080	
.953			-.1180				



TEST 10 SEP 72 CORRELATED PRESSURE DATA - OA12C

ANTI 67-707 OA12 ORA UPPER WING (REVISED)

SECTION 1 (UPPER) DEPENDENT VARIABLE CP

MACH (2) = 2.7 ALPHA (5) = 0.440

	Y/BW	.299	.364	.427	.534	.673	.760	.837
	X/CW							
	.965	-.0810						

AMES 87-707 GA12 G2A UPPER WING (REQUIRED) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.6490 INCHES YMRP = .0000 INCHES
BREF = 39.6490 INCHES ZMRP = .0010 INCHES
SCALE = .1200 SCALE

PARAMETRIC DATA

ALPHA = 20.000 FLEDER = -20.000
ELEVON = .000 RUDFLP = [illegible]

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1430	-.1[illegible]0	.0700	.8210	.8730	.8710	.7520
.050				-.1170	-.0610	-.0140	.0040
.081			-.1510				
.085		-.1[illegible]60					
.094	-.1320						
.150				-.1780	-.1200	-.0940	-.0[illegible]0
.177			-.1790				
.229	-.1320						
.234		-.1[illegible]0					
.250				-.2060	-.1750	-.1440	-.1[illegible]
.300	-.1250						
.450				-.2060	-.2050		-.1[illegible]
.473			-.1920				
.500	-.1600						
.550				-.2100	-.1920		
.555			-.1950				
.600							-.1940
.650						.1660	
.675	-.1870				-.1[illegible]		
.725				-.2100			
.750						-.1920	-.1990
.760			-.1970				
.775				-.2[illegible]0	.1[illegible]0		
.808			-.1950				
.834	-.1990						
.850				-.2070	-.1920	-.1940	
.857			-.1990				
.885	-.1840						
.900	-.1730			-.2010			-.1860
.905			-.1870				
.950				-.1900	-.1980	-.1950	
.953			-.1640				
.965	-.1290						

MACH (1) = 2.499 BETA (2) = -3.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1710	-.1660	-.0140	.7180	.7250	.7270	.6120
.050				-.1[illegible]7	-.1[illegible]3	-.0[illegible]5	-.1[illegible]
.081			-.1600				
.085		-.1760					
.094	-.1510						

[illegible] PRESSURE DATA - [illegible]

[illegible] UPPER WING (CONT)

[illegible] PERCENT VARIABLE CP

MACH (1) = [illegible] BETA (3) = -3.00	Y/BW	.299	.364	.427	.534	.673	.780	.897
	X/CW							
	.150				-.1970	-.1930	-.1200	-.1140
	.177			-.1730				
	.229	-.1500						
	.246		-.1480					
	.250				-.2160	-.1910	-.1430	-.1540
	.362	-.1530						
	.400				-.2150	-.2150		-.1730
	.402			-.1890				
	.497	-.1750						
	.550				-.2130	-.2000		
	.595			-.1930				
	.600							-.1980
	.650						-.1910	
	.700	-.1870				-.1960		
	.725				-.2150			
	.750						-.1960	-.2000
	.760			-.1940				
	.775				-.2140	-.1950		
	.808			-.1870				
	.834	-.1940						
	.850				-.2130	-.1970	-.2000	
	.857			-.2020				
	.865	-.1820						
	.900	-.1740			-.2110			-.1950
	.905			-.1930				
	.950				-.2030	-.1950	-.1980	
	.953			-.1770				
	.965	-.1400						
MACH (1) = 2.493 BETA (3) = -.150	Y/BW	.299	.364	.427	.534	.673	.780	.897
	X/CW							
	.000	-.1870	-.1660	-.0900	.5450	.5800	.5780	.4770
	.050				-.1820	-.1420	-.1020	-.0940
	.081			-.1890				
	.086		-.1690					
	.094	-.1810						
	.130				-.2140	-.1790	-.1490	-.1420
	.177			-.1980				
	.229	-.1830						
	.246		-.1840					
	.250				-.2200	-.2060	-.1820	-.1750
	.362	-.1820						
	.400				-.2200	-.2220		-.1910
	.402			-.2030				
	.497	-.1860						

AMES 87-707 OA12 C2A UPPER WING (PBOUD7)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2200	-.2020		
.565			-.2040				
.600							-.2020
.650						-.1980	
.700	-.2050				-.2020		
.725				-.2220			
.750						-.2020	-.1980
.760			-.2000				
.775				-.2190	-.2020		
.808			-.1970				
.834	-.1970						
.850				-.2180	-.2030	-.2020	
.857			-.2070				
.865	-.1900						
.900	-.1830			-.2140			-.2030
.905			-.2060				
.950				-.2110	-.2010	-.2020	
.953			-.2020				
.965	-.1580						

MACH (1) = 2.498 BETA (4) = 3.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1970	-.2040	-.1370	.3920	.4570	.4750	.5510
.050				-.2050	-.1700	-.1360	-.1330
.081			-.1840				
.086		-.1810					
.094	-.1820						
.150				-.2280	-.1960	-.1700	-.1650
.177			-.1950				
.229	-.1860						
.246		-.1900					
.250				-.2260	-.2170	-.1960	-.1900
.362	-.1810						
.400				-.2270	-.2260		-.2010
.402			-.2000				
.497	-.1810						
.550				-.2270	-.2090		
.565			-.2020				
.600							-.2070
.650						-.2050	
.700	-.1990				-.2100		
.725				-.2280			
.750						-.2000	-.2050
.760			-.1960				
.775				-.2280	-.2060		



Y/C	.299	.364	.427	.534	.673	.780	.887
.626			-.1940				
.674	-.1940						
.850				-.2240	-.2190	-.2070	
.887			-.2100				
.895	-.1850						
.900	-.1830			-.2200			-.2120
.915			-.2090				
.950				-.2160	-.2070	-.1940	
.953			-.2120				
.965	-.1600						

MACH = 2.439 ALTA = 0.0 = 0.340

Y/C	.299	.364	.427	.534	.673	.780	.887
.000	-.1990	-.2060	-.1600	.2640	.3290	.3130	.2350
.050				-.2200	-.2010	-.1640	-.1630
.181			-.1980				
.086		-.1900					
.094	-.1920						
.150				-.2300	-.2210	-.1880	-.1870
.177			-.1980				
.229	-.1890						
.246		-.1970					
.250				-.2310	-.2330	-.2020	-.1900
.293	-.1860						
.400				-.2310	-.2290		-.1870
.402			-.1930				
.497	-.1920						
.550				-.2310	-.1970		
.565			-.1870				
600							-.1880
.650						-.1940	
.700	-.1880				-.1960		
.725				-.2210			
.750						-.1930	-.1850
.760			-.1800				
.775				-.2120	-.1950		
.808			-.1760				
.834	-.1850						
.850				-.2060	-.1970	-.1900	
.897			-.1930				
.900	-.1790						
.900	-.1760			-.2040			-.1850
.905			-.1930				
.950				-.1990	-.1970	-.1850	
.953			-.1850				

AMES 87-707 OA12 O2A UPPER WING (REGU...

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.1700						

MACH (2) = 3.501 BETA (1) = -6.710

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0480	-.0340	.2130	1.2560	1.0350	.8540	.7490
.050				.0240	.0720	.0440	.0830
.081			-.0680				
.086		-.0360					
.094	-.0450						
.150				-.0610	-.0150	.0010	-.0320
.177			-.0730				
.229	-.0490						
.246		-.0480					
.250				-.0930	-.0660	-.0330	-.0650
.362	-.0490						
.400				-.1110	-.0940		-.0850
.402			-.0830				
.497	-.0620						
.550				-.1120	-.0980		
.565			-.0870				
.600							-.0870
.650						-.0790	
.700	-.0800				-.0960		
.725				-.1110			
.750						-.0 .0	-.0860
.760			-.0840				
.775				-.1110	.0930		
.808			-.0810				
.834	-.0840						
.850				-.1100	-.0920	-.0860	
.857			-.0980				
.865	-.0830						
.900	-.0800			-.1060			-.0900
.905			-.1010				
.950				-.1000	-.0900	-.0870	
.953			-.0980				
.965	-.0810						

MACH (2) = 3.501 BETA (2) = -3.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0760	-.0350	.1700	1.0520	1.0230	.7890	.6460
.050				-.0260	.0430	.0680	.0180
.081			-.0 .0				
.086		-.0620					
.094	-.0590						

...0012 ...A ...ERO WING (F...007)

SECTION ... DEPENDENT VARIABLE CP

MACH (2) = ... BETA (3) = ...	X/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.150				-.0840	-.0350	-.0090	-.0370
	.177			-.0240				
	.229	-.0710						
	.246		-.0700					
	.250				-.1090	-.0810	-.0540	-.0600
	.352	-.0690						
	.400				-.1200	-.1070		-.0720
	.402			-.0810				
	.497	-.0720						
	.550				-.1230	-.1010		
	.565			-.0920				
	.650							-.0870
	.650						-.0920	
	.700	-.0880				-.1000		
	.725				-.1190			
	.750						-.1000	-.0890
	.762			-.0830				
	.775				-.1210	-.1000		
	.798			-.0970				
	.824	-.0900						
	.850				-.1180	-.0990	-.0980	
	.857			-.1070				
	.909	-.0870						
	.950	-.0650			-.1180			-.0920
	.956			-.0120				
	.950				-.1150	-.0980	-.0980	
	.957			-.1090				
	.955	-.0710						

MACH (2) = 3.501 BETA (3) = -.150	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.0...	-.0330	-.0810	.0210	.8360	.8590	.8590	.5830
	.0...				-.0900	-.0120	.0450	.0490
	.1...			-.0900				
	.1...		-.0810					
	.1...	-.0800						
	.1...				-.1050	-.0660	-.0240	-.0230
	.2...			-.1930				
	.2...	-.0820						
	.2...		-.0810					
	.3...				-.1220	-.1000	-.0660	-.0620
	.3...	-.0820						
	.4...				-.1270	-.1160		-.0820
	.4...			-.0940				
	.497	-.0810						

AMES 87-737 OA12 02A UPPER WING (#30007)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1270	-.1040		
.565			-.0940				
.600							-.1010
.650						-.0990	
.700	-.0910				-.1060		
.725				-.1280			
.750						-.1050	-.0980
.750			-.0920				
.775				-.1260	-.1040		
.808			-.0930				
.834	-.0930						
.850				-.1260	-.1050	-.1070	
.857			-.1130				
.865	-.0890						
.900	-.0880			-.1250			-.1 00
.905			-.1210				
.950				-.1240	-.1040	-.1040	
.953			-.1210				
.965	-.0790						

MACH (2) = 3.501 BETA (4) = 3.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0960	-.0970	-.0370	.6520	.6710	.6790	.5920
.050				-.0930	-.0[illegible]	-.0010	.0190
.081			-.1020				
.086		-.0950					
.094	-.0930						
.150				-.1170	-.0890	-.0500	-.0390
.177			-.1040				
.229	-.0950						
.246		-.0990					
.250				-.1310	-.1130	-.0810	-.0730
.362	-.0960						
.400				-.1330	-.1280		-.0900
.402			-.1010				
.497	-.0980						
.550				-.1330	-.1060		
.565			-.1010				
.600							-.1060
.650						-.1030	
.700	-.1020				-.1100		
.725				-.1340			
.750						-.1060	-.0990
.760			-.1010				
.775				-.1310	-.1000		

AMES 87-707 CA12 02A UPPER WING (RBOUD7)

SECTION (1)UPPER SURF DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1010				
.834	-.1020						
.850				-.1310	-.1090	-.1090	
.857			-.1170				
.865	-.1000						
.900	-.0980			-.1310			-.1040
.905			-.1260				
.950				-.1310	-.1080	-.1090	
.953			-.1260				
.965	-.0990						

MACH (2) = 3.501 BETA (5) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0960	-.1010	-.0690	.4840	.5180	.5230	.4530
.050				-.1050	-.0710	-.0410	-.0240
.081			-.1230				
.086		-.1190					
.094	-.1130						
.150				-.1220	-.0950	-.0730	-.0640
.177			-.1190				
.229	-.1150						
.246		-.1190					
.250				-.1250	-.1150	-.0940	-.0870
.362	-.1170						
.400				-.1270	-.1260		-.0990
.402			-.1180				
.497	-.1210						
.550				-.1250	-.1080		
.565			-.1210				
.600							-.1090
.650						-.1090	
.700	-.1210				-.1100		
.725				-.1260			
.750						-.1080	-.1010
.760			-.1180				
.775				-.1240	-.1110		
.808			-.1190				
.834	-.1150						
.850				-.1250	-.1090	-.1100	
.857			.1010				
.865	-.1160						
.900	-.1130			-.1200			-.1080
.905			-.1120				
.950				-.1130	-.1090	-.1110	
.953			-.1100				

AMES 87-777 CA12 C2A UPPER WING (FB3:C7)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = 6.473

Y/BW	.299	.364	.427	.534	.673	.780	.887
Y/OW							
.965	-.1140						

DATE 18 SEP 73 ISOLATED PRESSURE DATA - CA12C (PROGRAM) (18 MAY 73)

...MES OF-707 CA12 C2A UPPER WING

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

...ENCE A

SREF = 2.4210 SQ.FT. XMRP = 32.5000 INCHES
BREF = 39.9400 INCHES YMRP = .0000 INCHES
CREF = 39.1400 INCHES ZMRP = .0000 INCHES
SCALE = .0357 SCALE

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0590	.0570	.3440	1.0300	.9570	.9640	.9550
.050				.3110	.3480	.3760	.4270
.081			.1730				
.086		.1130					
.094	.1000			.0980	.1320	.1850	.1810
.150			.0370				
.177							
.229	.0700						
.246		.0340		-.0380	.0060	.0600	.0620
.250							
.362	.0500			-.1210	-.0810		-.0090
.400							
.402			-.0760				
.497	-.0080			-.1570	-.1130		
.550							
.565			-.1090				-.0930
.600						-.1050	
.650					-.1370		
.700	-.0510			-.1760			
.725						-.1650	-.1750
.750							
.760			-.0950				
.775				-.2040	-.1680		
.808			-.1200				
.834	-.0080			-.1980	-.1660	-.1610	
.850							
.857			-.1570				
.865	-.0580						
.900	-.0610			-.1850			-.1620
.905			-.1560				
.950				-.1570	-.1600	-.1610	
.953			-.1570				
.965	-.0490						

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0230	.0260	.2890	.9080	.8370	.8500	.8350
.050				.2360	.2790	.3100	.3510
.081			.1020				
.086		.0450					
.094	.0370						

AMES 87-707 OA12 OEA UPPER WING (EBGUCB)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (2) = -3.300

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.150				.0260	.0890	.1360	.1310
.177			-.0190				
.229	.0220						
.245		-.0180					
.250				-.0720	-.0230	.0240	.0270
.352	-.0060						
.400				-.1420	-.1040		-.0330
.402			-.1140				
.497	-.0540						
.500				-.1730	-.1330		
.564			-.1400				
.600							-.1070
.650						-.1210	
.700	-.0900				-.1520		
.725				-.1870			
.750						-.1730	-.1650
.760			-.1280				
.775				-.2130	-.1740		
.808			-.1500				
.834	-.0460						
.850				-.2050	- 1720	-.1700	
.857			-.1660				
.865	-.0850						
.900	-.0640			-.1930			-.1710
.905			-.1650				
.900				-.1630	- [illegible]	-.1740	
.910			-.1630				
.965	-.0680						

MACH (1) = 2.499 BETA (2) = -.150

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.001	- .0020	.0080	.2310	.8410	.7300	.7510	.7330
.073				.1600	.2150	.2530	.2920
.081			.1670				
.086		.0240					
.09	.0100						
.110				-.0160	.0420	.0390	.0060
.177			-.0300				
.229	.0100						
.245		-.0020					
.250				-.1010	-.0570	-.0070	.0000
.352	-.0120						
.400				-.1580	-.1240		-.0530
.402			-.1030				
.497	-.0470						



Y/BW	.299	.364	.427	.534	.673	.780	.887
Y/CW							
.550				-.1790	-.1450		
.590			-.1240				-.1210
.600						-.1340	
.650					-.1640		
.700	-.0830			-.1870			
.725						-.1780	-.1860
.750							
.760			-.1040				
.775				-.2090	-.1780		
.800			-.1350				
.824	-.0360						
.850				-.2020	-.1750	-.1781	
.857			-.1670				
.885	-.0870			-.1850			-.1760
.900	-.0920						
.905			-.1640				
.950				-.1640	-.1720	-.1770	
.953			-.1600				
.965	-.0790						

Y/BW	.299	.364	.427	.534	.673	.780	.887
Y/CW							
.000	-.0160	-.0130	.2070	.7220	.6580	.6700	.5420
.050				.0990	.1620	.1990	.2340
.081			.0160				
.086		-.0060					
.094	-.0110						
.100				-.0370	.0150	.0540	.0560
.177			-.0550				
.229	-.0140						
.246		-.0480					
.250				-.1090	-.0740	-.0390	-.0270
.362	-.0310			-.1520	-.1300		-.0740
.400							
.402			-.1060				
.497	-.0540			-.1630	-.1560		
.550							
.565			-.1300				-.1350
.600						-.1480	
.650					-.1700		
.700	-.0870			-.1690			
.725						-.1810	-.1920
.750							
.760			-.0970				
.775				-.1930	-.1760		

AMES 67-707 OA12 02A UPPER WING (PB01C08)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (4) = 3.060

Y/BW	.259	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1320				
.834	-.0350						
.850				-.1890	-.1740	-.1600	
.857			-.1490				
.865	-.0930						
.900	-.1000			-.1730			-.1850
.905			-.1510				
.950				-.1540	-.1750	-.1780	
.953			-.1450				
.985	-.0910						

MACH (1) = 2.499 BETA (5) = 6.290

Y/BW	.299	.364		.534	.673	.780	.887
X/CW							
.000	-.0310	-.0350	.1430	.6270	.5710	.5910	.5640
.050				.0300	.0610	.1370	.1710
.081			-.0150				
.086		-.0240					
.094	-.0240						
.150				-.0680	-.0300	.0150	.0
.177			-.0650				
.220	-.0270						
.246		-.0490					
.250				-.12.0	-.1200	.[illegible]	510
.362	-.0300						
.400				-.1530	-.147[illegible]		-.0940
.402			-.1040				
.497	-.0530						
.550				-.1630	-.1[illegible]30		
.555			-.1210				
.600							-.1670
.650						-.1.30	
.700	-.0850				- 1720		
.725				-.1650			
.750						-.1760	-.1870
.760			-.0980				
.775				-.1680	-.1790		
.808			-.1350				
.834	-.0450						
.850				-.1840	-.1760	-.1780	
.857			-.1570				
.865	-.0980						
.900	-.1060			-.1710			-.1867
.905			-.1510				
.950				-.1450	-.1770	- 1790	
.953			-.1450				

1: 7 10 SEP 73 [illegible] SCOOPED DATA - [illegible]

[illegible] [illegible] [illegible] C12 C2A UPPER WING (PSI,03)

SECTION (1 [illegible]

MACH (1) = [illegible] (5) = 6.290

MACH (2) = 3.501 BE (1) = -6.670

DEPENDENT VARIABLE CP

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0960						

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0680	.0740	.3790	1.1810	1.1030	1.1710	1.1690
.050				.3600	.4030	.4560	.5290
.081			.1720				
.085		.1140					
.094	.0960						
.150				.1260	.1850	.2260	.2460
.177			.0580				
.229	.0800						
.246		.0460					
.250				.0210	.0700	.1080	.1220
.362	.0540						
.400				-.0460	-.0040		.0530
.402			-.0320				
.497	.0120						
.550				-.0770	-.0400		
.565			-.0580				
.600							-.0220
.650						-.0300	
.700	-.0200				-.0620		
.725				-.0930			
.750						-.0790	-.0860
.760			-.0590				
.775				-.1080	-.0870		
.808			-.0690				
.834	-.0060						
.850				-.1060	-.0890	-.0820	
.857			-.0910				
.865	-.0290						
.900	-.0300			-.1010			-.0800
.905			-.0910				
.950				-.0930	-.0850	-.0780	
.953			-.0870				
.965	-.0210						

MACH (2) = 3.501 BETA (2) = -3.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0300	.0350	.2830	.9800	.9240	.9910	.9860
.050				.2730	.3080	.3520	.4130
.081			.1160				
.085		.0670					
.094	.0360						

AMES 67-707 0412 02A UPPER WING (REDUCED)

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.420

X/CW \ Y/BW	.299	.364	.427	.514	.673	.790	.887
.150				.0760	.1280	.1680	.1790
.177			.0360				
.229	.0440						
.246		.0180					
.250				-.0050	.0350	.0650	.0800
.362	.0240						
.400				-.0600	-.0290		.0350
.402			-.0470				
.497	-.0070						
.550				-.0640	-.0380		
.565			-.0450				
.600							-.0190
.650						-.0460	
.700	-.0350				-.0730		
.725				-.1000			
.750						-.0860	-.0920
.760			-.0690				
.775				-.1050	-.0920		
.808			-.0780				
.834	-.0270						
.850				-.1050	-.0630	-.04	
.857			-.0870				
.865	-.0430						
.900	-.0420			-.1010			-.0670
.905			-.0950				
.950				-.0950	-.	-.0960	
.953			-.0930				
.965	-.0370						

MACH (2) = 3.501 BETA (3) = -.170

X/CW \ Y/BW	.299	.364	.427	.5	.7	.790	.897
.000	.0060	.0100	.2060	.6	.7	.8160	.8
.050				.1	.2	.2610	.3
.081			.0660				
.086		.0310					
.094	.0240						
.150				.0	.0	.1140	.1240
.177			-.0120				
.229	.0170						
.246		-.0040					
.250				-.0	-.0	.0270	.0
.362	.0010						
.400				-.0	-.0		-.0040
.402			-.0330				
.497	-.0250						

AMES OA12 DBA UPPER WING (REQ/78)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.170

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.550				-.1060	-.0760		
.565			-.0730				
.600							-.0540
.650						-.0620	
.700	-.0480				-.0860		
.725				-.1120			
.750						-.0940	-.0970
.760			-.0750				
.775				-.1140	-.0990		
.808			-.0840				
.834	-.0330						
.850				-.1130	-.0960	-.0940	
.857			-.1060				
.865	-.0490						
.900	-.0510			-.1120			-.0950
.905			-.1110				
.950				-.1060	-.0930	-.0920	
.953			-.1070				
.965	-.0460						

MACH (2) = 3.501 BETA (4) = 3.190

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0120	-.0110	.1430	.6700	.6390	.6640	.6570
.050				.1150	.1530	.1980	.2420
.081			.0230				
.086		.0000					
.094	- 0010						
.150				-.0020	.0360	.0740	.0820
.177			-.0280				
.229	-.0050						
.246		-.0250					
.250				-.0580	-.0300	.0010	.0110
.362	-.0160						
.400				-.0930	-.0710		-.0260
.402			-.0630				
.497	-.0360						
.550				-.1080	-.0850		
.565			-.0780				
.600							-.0690
.650						-.0740	
.700	-.0570				-.0950		
.725				-.1160			
.750						-.1000	-.0960
.760			-.0780				
.775				-.1140	-.0990		

(FRQUOD)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 5

X/CW	.299	.354	.427	.534	.673	.780	.887
.006			-.0450				
.024	-.0440						
.045				-.1130	-.0960	-.1000	
.057			-.1040				
.065	-.0520						
.000	-.0830			-.1090			-.0960
.095			-.1090				
.150				-.1060	-.0970	-.0970	
.193			-.1040				
.999	-.0570						

MACH (3) = 3.501 BETA (5) = 6.500

X/CW	.299	.354	.427	.534	.673	.780	.887
.000	-.0020	-.0030	.0000	.5210	.5230	.5510	.5380
.050				.0530	.0930	.1400	.1310
.081			-.0040				
.085		-.0120					
.094	-.0090						
.150				-.0290	.0060	.0400	.0
.177			-.0390				
.229	-.0130						
.246		-.0290					
.250				-.0730	-.0[illegible]	-.[illegible]	-.0100
.362	-.0220						
.400				-.0950	-[illegible]		-.0410
.402			-.0620				
.437	-.0370						
.550				-.1090	-.1040		
.565			-.0710				
.600							-.0770
.650						-.0800	
.700	-.0540				-.1000		
.725				-.1080			
.750						-.0980	-.0960
.760			-.0710				
.775				-.1110	-.1070		
.808			-.0610				
.834	-.0460						
.850				-.1090	-.0990	-.0990	
.857			-.0[illegible]				
.865	-.0590						
.900	-.0610			-.1070			-.0990
.905			-.0960				
.950				-.1040	-.1000	-.0970	
.953			-.0940				

UPPER WING (RBQ018)

DEPENDENT VARIABLE CP

Z/SW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.165	-.0550						

AMES 67-7C7 OA12 C2A UPPER WING (R30039) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3600 INCHES
LREF = 33.8490 INCHES YMRP = .0000 INCHES
BREF = 33.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION 1 UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -0.520

Y/BW	.229	.364	.427	.534	.673	.780	.867
X/CW							
.000	-.0270	-.0110	.3490	1.0630	.6760	.5970	.5490
.050				.0360	.1140	.1670	.2020
.081			-.0440				
.086		.0000					
.094	.0080						
.150				-.0960	-.0180	.0200	.0340
.177			-.1250				
.229	.0130						
.246		-.0720					
.250				-.1490	-.1010	-.0690	-.0530
.362	-.0180						
.400				-.1840	-.1540		-.0970
.402			-.1530				
.497	-.0580						
.550				-.2020	-.1780		
.565			-.1680				
.600							-.1470
.650						-.1620	
.700	-.1090				-.1		
.725				-.1990			
.750						-.1600	-.1680
.760			-.1720				
.775				-.20	-.1780		
.809			-.1820				
.834	-.1170						
.850				-.2070	-.1750	-.1810	
.857			-.1980				
.865	-.1450						
.900	-.1480			-.2060			-.1840
.905			-.1970				
.950				-.2010	-.1750	-.1620	
.953			-.1770				
.965	-.1230						

MACH (1) = 2.498 BETA (2) = -3.340

Y/BW	.299	.364	.427	.534	.673	.780	.867
X/CW							
.000	-.0620	-.0810	.1950	.6050	.4350	.8600	.8100
.050				-.040	.0300	.1050	.1560
.081			-.1000				
.086		-.0470					
.094	-.0300						

...TF 14 SEP ... -BALANCED PRESSURE DATA - ENGINE ...

... PCT 0-12 ...02A UPPER WING (RBQUG9)

SECTION (1/... ... INDEPENDENT VARIABLE CP

MACH (1) = ... (2) = -3.140

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.150				-.1370	-.0720	-.0220	-.0070
.177			-.1420				
.229	-.0300						
.246		-.0900					
.250				-.1650	-.1430	-.0960	-.0810
.362	-.0550						
.400				-.2150	-.1870		-.1190
.402			-.1660				
.497	-.0880						
.550				-.2190	-.1900		
.565			-.1760				
.600							-.1620
.650						-.1740	
.700	-.1360				-.1890		
.725				-.2170			
.750						-.1860	-.1910
.760			-.1800				
.775				-.2190	-.1850		
.808			-.1630				
.834	-.1440						
.850				-.2220	-.1840	-.1880	
.857			-.2130				
.865	-.1640						
.900	-.1650			-.2230			-.1900
.905			-.2100				
.950				-.2190	-.1840	-.1880	
.953			-.1990				
.965	-.1410						

MACH (1) = 2.498 BETA (3) = -.160

X/CW \ Y/BW	.299	.364	.427	.534	.573	.780	.887
.000	-.1120	-.1210	.0530	.7430	.7040	.7370	.6880
.050				-.0930	-.0250	.0440	.0910
.081			-.1420				
.086		-.0960					
.094	-.0960						
.150				-.1650	-.1060	-.0590	-.0440
.177			-.1570				
.229	-.0980						
.246		-.1190					
.250				-.2010	-.1610	-.1220	-.1060
.362	-.0940						
.400				-.2170	-.1950		-.1390
.402			-.1780				
.497	-.1290						

AMES 67-707 OA12 O2A UPPER WING (F3(059)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (2 = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2140	-.2010		
.565			-.1690				
.600							-.1730
.650						-.1850	
.700	-.1600				-.1950		
.725				-.2140			
.750						-.1940	-.1950
.760			-.1820				
.775				-.2140	-.1330		
.808			-.1830				
.834	-.1620						
.850				-.2150	-.1900	-.1940	
.857			-.2000				
.865	-.1620						
.900	-.1690			-.2150			-.1950
.905			-.2040				
.950				-.2100	-.1900	-.1940	
.953			-.1990				
.965	-.1450						

MACH (1) = 2.499 BETA (2) = 3.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1340	-.1420	-.0710	.5950	.5920	[illegible]	5970
050				-.1230	-.084[illegible]	[illegible]	.0290
.091			-.1510				
.086		-.1290					
.094	-.1290						
.150				-.1830	.1310	-.0930	-.0800
.177			-.1680				
.229	-.1330						
.246		-.1360					
.250				-.2110	-.1750	-.1470	-.1310
.362	-.1240						
.400				-.2140	-.2050		-.1570
.402			-.1860				
.497	-.1510						
.550				-.2140	-.2090		
.565			-.1910				
.600							-.1870
.650						-.1880	
.700	-.1710				-.2020		
.725				-.2110			
.750						-.1940	-.1950
.760			-.1830				
.775				-.2140	-.1940		

(RBQUD9)

INCREMENT VARIABLE CD

	Y/BW	.259	.364	.427	.534	.673	.780	.887
	X/CW							
	.808			-.1920				
	.834	-.1480						
	.850				-.2120	-.2000	-.1950	
	.857			-.2090				
	.865	-.1670						
	.900	-.1670			-.2060			-.1980
	.903			-.2110				
	.930				-.1930	-.2010	-.1960	
	.950			-.2020				
	.97	-.1460						

MACH (1) = 2.494 BETA (5) = 5.000

	Y/BW	.259	.364	.427	.534	.673	.780	.887
	X/CW							
	.040	-.1460	-.1620	-.1440	.4450	.4670	.4950	.4520
	.050				-.1700	-.1130	-.0630	-.0290
	.081			-.1570				
	.095		-.1440					
	.091	-.1430						
	.150				-.2010	-.1630	-.1240	-.1090
	.177			-.1710				
	.223	-.1570						
	.246		-.1640					
	.250				-.2140	-.1960	-.1670	-.1520
	.352	-.1500						
	.400				-.2150	-.2160		-.1750
	.402			-.1830				
	.497	-.1620						
	.550				-.2170	-.2020		
	.565			-.1870				
	.600							-.1890
	.650						-.1930	
	.700	-.1680				-.2010		
	.725				-.2120			
	.750						-.1950	-.1870
	.760			-.1860				
	.775				-.2110	-.2010		
	.808			-.1930				
	.834	-.1420						
	.850				-.2070	-.2000	-.1950	
	.857			-.2080				
	.855	-.1580						
	.900	-.1600			-.2000			-.1920
	.905			-.2090				
	.950				-.1930	-.1930	-.1950	
	.953			-.2020				

DATE 10 SEP 73 TABULATED PRESSURE DATA - 0412C

AMES 87-707 0A12 02A UPPER WING (RBQUD9)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

Y/BW	.299	.354	.427	.534	.673	.780	.887
X/CW							
.965	-.1450						

MACH (2) = 3.501 BETA (1) = -6.750

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0110	.0270	.4120	1.2630	1.1800	1.0300	.9210
.050				.1510	.0170	.2310	.1680
.091			.0180				
.086		.0090					
.094	.0250						
.150				-.0010	.0670	.0790	.0490
.177			- 0500				
.229	.0230						
.246		-.0 290					
.250				-.0600	-.0190	.0030	-.0030
.362	.0030						
.400				-.0930	-.0670		-.0
.402			-.0610				
.497	-.0290						
.550				-.1100	-.0660		
.565			-.0860				
.600							- (*
.650						-.0710	
.700	-.0540				-.0960		
.725				-.1150			
.750						-	-.0960
.760			-.0880				
.775				-.1180	-		
.809			-.0860				
.834	-.0690						
.850				-.1160		-.0960	
.857			-.1050				
.865	-.0820						
.900	-.0840			-.1150			-.0970
.905			-.1000				
.950				-.1160	-.0940	-.0970	
.953			-.1080				
.965	-.0780						

MACH (2) = 3.501 BETA (2) = -3.450

Y/BW	.299	.354	.427	.534	.673	.780	.887
X/CW							
.000	-.0410	-.0200	.2	1.0740	1.0110	1.0440	.9700
.050				.0420	.1450	.1970	.1350
.081			-				
.086		-.0150					
.094	-.0220						

[illegible] SEP 73 [illegible] C2A UPPER WING (RB1039)

[illegible] DEPENDENT VARIABLE CP

[illegible] (2) = [illegible] (2) = -3.--50

	Y/BW	.299	.364	.427	.534	.673	.760	.887
	X/CW							
	.150				-.0340	.0250	.0590	.0540
	.177			-.0710				
	.229	-.0210						
	.246		-.0470					
	.250				-.0810	-.0450	-.0130	-.0060
	.362	-.0200						
	.400				-.1070	-.0820		-.0440
	.402			-.0900				
	.497	-.0510						
	.550				-.1190	-.0960		
	.565			-.0930				
	.600							-.0770
	.650						-.0820	
	.700	-.0710				-.1030		
	.725				-.1210			
	.750						-.0980	-.0980
	.760			-.0920				
	.775				-.1220	-.1000		
	.808			-.0930				
	.834	-.0840						
	.850				-.1210	-.0990	-.1000	
	.857			-.1070				
	.865	-.0830						
	.900	-.0920			-.1180			-.0990
	.905			-.1130				
	.950				-.1180	-.1000	-.1000	
	.953			-.1120				
	.965	-.0830						

MACH (2) = 3.501 BETA (3) = -.160

	Y/BW	.299	.364	.427	.534	.673	.760	.887
	X/CW							
	.000	-.0590	-.0650	.1060	.8760	.8430	.8600	.8010
	.050				.0180	.0850	.1350	.1700
	.081			-.0800				
	.086		-.0620					
	.094	-.0680						
	.150				-.0630	-.0080	.0250	.0320
	.177			-.0990				
	.229	-.0700						
	.246		-.0770					
	.250				-.0960	-.0630	-.0340	-.0250
	.362	-.0720						
	.400				-.1120	-.0940		-.0530
	.402			-.1090				
	.497	-.0850						

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C (FB3L09)

AMES 87-707 OA12 02A UPPER WING

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1180	-.1010		
.565			-.1140				
.600							-.0810
.650						-.0950	
.700	-.1020				-.1000		
.725				-.1160			
.750						-.0980	-.0980
.760			-.1130				
.775				-.1180	-.1000		
.808			-.1000				
.834	-.1080						
.850				-.1180	-.0990	-.1000	
.857			-.1070				
.865	-.1090						
.900	-.1100			-.1170			-.1010
.935			-.1070				
.950				-.1120	-.1000	-.1000	
.953			-.1100				
.965	-.1090						

MACH (2) = 3.501 BETA (4) = 3.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0770	-.0380	-.0073	.6740	.6740	[illegible]	.6480
.050				-.0420	.02[illegible]	[illegible]	.1030
.081			-.0890				
.086		-.0770					
.094	-.0760						
.150				-.0890	[illegible]40	-.0910	.0040
.177			-.0970				
.229	-.0310						
.246		-.0630					
.250				-.1190	-.0950	-.0970	-.0490
.302	-.0820						
.400				-.1220	-.1000		-.0710
.402			-.1060				
.497	-.0890						
.550				-.1230	-.1100		
.565			-.1070				
.600							-.0940
.650						-.1000	
.700	-.1030				-.1060		
.725				-.1210			
.750						-.1010	-.1030
.760			-.1050				
.775				-.12[illegible]	-.10[illegible]		

AMES 87-737 OA12 W2A UPPER WING (RB0U09)

SECTION (1)UPPER DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1030				
.834	-.1020						
.850				-.1200	-.1060	-.1070	
.857			-.1090				
.865	-.1030						
.900	-.1030			-.1200			-.1080
.905			-.1160				
.950				-.1170	-.1070	-.1080	
.953			-.1150				
.955	-.0940						

MACH (2) = 3.501 BETA (5) = 6.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0810	-.0970	-.0670	.4940	.5340	.5620	.5200
.050				-.0940	-.0370	.0210	.0520
.081			-.1040				
.086		-.0960					
.094	-.0970						
.150				-.1200	-.0820	-.0380	-.0280
.177			-.1070				
.229	-.1000						
.246		-.1020					
.250				-.1330	-.1140	-.0760	-.0650
.362	-.1020						
.400				-.1320	-.1290		-.0870
.402			-.1150				
.497	-.1050						
.550				-.1340	-.1100		
.565			-.1160				
.600							-.1040
.650						-.1050	
.700	-.1060				-.1100		
.725				-.1320			
.750						-.1100	-.1040
.760			-.1130				
.775				-.1330	-.1110		
.808			-.1140				
.834	-.1060						
.850				-.1310	-.1110	-.1120	
.857			-.1110				
.865	-.1070						
.900	-.1090			-.1300			-.1120
.905			-.1290				
.950				-.1300	-.1110	-.1110	
.953			-.1320				

AMES 87-707 OA12 C2A UPPER WING (FBGU09)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (51) = 6.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.995	-.1010						

[illegible] 87-107 0112 02A UPPER WING (RBSU10) (10 [illegible])

[illegible] DATA

PARAMETRIC DATA

DATE = [illegible] XMRP = 32.3700 INCHES
UNIT = [illegible] YMRP = .0000 INCHES
SREF = [illegible] ZMRP = .0000 INCHES
SCALE = .1000 SCALE

ALPHA = 20.000 RUDDER = .000
ELEVON = 10.000 SPOILR = 40.000

SECTION (1)UPPER [illegible] DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1420	-.1340	.0700	.6940	.8850	.8740	.7430
.050				-.1090	-.0510	-.0060	.0130
.081			-.1370			-	
.086		-.1030					
.094	-.1190						
.150				-.1710	-.1200	-.0850	-.0310
.177			-.1550				
.229	-.1150						
.246		-.1170					
.250				-.1990	-.1680	-.1390	-.1310
.362	-.1160						
.400				-.2010	-.1960		-.1550
.402			-.1780				
.497	-.1430						
.550				-.2300	-.1850		
.565			-.1820				
.600							-.1830
.650						-.1770	
.700	-.1730				-.1830		
.725				-.1980			
.750						-.1840	-.1690
.760			-.1790				
.775				-.2000	-.1840		
.808			-.1780				
.834	-.1820						
.850				-.1960	-.1850	-.1870	
.857			-.1910				
.865	-.1820						
.900	-.1820			-.1910			-.1880
.905			-.1860				
.950				-.1880	-.1840	-.1870	
.953			-.1780				
.965	-.1520						

MACH (1) = 2.498 BETA (2) = -3.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1660	-.1610	-.0130	.7180	.7300	.7250	.6040
.050				-.1450	-.0950	-.0570	-.0420
.081			-.1640				
.086		-.1420					
.094	-.1550						

DATE 10 SEP 73 TABULATED PRESSURE DATA - CA12C

AMES 87-707 CA12 C2A UPPER WING (E3U1D)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.493 BETA (2) = -3.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1920	-.1450	-.1170	-.1110
.177			-.1750				
.229	-.1520						
.246		-.1530					
.250				-.2030	-.1840	-.1610	-.1510
.362	-.1590						
.400				-.2070	-.2090		-.1700
.402			-.1920				
.497	-.1720						
.550				-.2040	-.1920		
.565			-.1950				
.600							-.1910
.650						-.1860	
.700	-.1940				-.1910		
.725				-.2060			
.750						-.1910	-.1870
.760			-.1960				
.775				-.2070	-.1920		
.800			-.1900				
.834	-.1950						
.850					-.1910	-.1840	
.857			-.1960				
.865	-.1920						
.900	-.1910			-.2030			-.1950
.905			-.1950				
.950				-.1990	-.1970	-.1930	
.953			-.1870				
.965	-.1630						

MACH (1) = 2.493 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1650	-.1660	-.0680	-.0470	-.0510	-.0790	-.4710
.050				-.1610	-.1990	-.1040	-.0920
.081			-.1920				
.086		-.1650					
.094	-.1720						
.150				-.2130	-.1760	-.1490	-.1420
.177			-.1970				
.229	-.1750						
.246		-.1780					
.250				-.2190	-.2050	-.1810	-.1740
.362	-.1770						
.400				-.2160	-.2150		-.1810
.402			-.1970				
.497	-.1840						

[illegible] UPPER WING [illegible]

SECTION [illegible] DEPENDENT VARIABLE CP

MACH [illegible] BETA (4) = -.160	Y/BW	.299	.384	.427	.534	.673	.780	.887
	X/CW							
	.550				-.2160	-.2010		
	.565			-.2010				
	.600							-.2030
	.650						-.1970	
	.700	-.1990				-.2010		
	.725				-.2160			
	.750						-.2050	-.2020
	.760			-.1940				
	.775				-.2150	-.2020		
	.809			-.1920				
	.834	-.1900						
	.850				-.2140	-.2020	-.2020	
	.857			-.1930				
	.865	-.1680						
	.900	-.1870			-.2100			-.2060
	.905			-.2050				
	.950				-.2050	-.2010	-.2020	
	.953			-.2050				
	.965	-.1670						

MACH (2) = 2.498 BETA (4) = 3.040	Y/PW	.299	.384	.427	.534	.673	.780	.887
	X/CW							
	.000	-.1930	-.2020	-.1340	.3930	.4560	.4460	.3480
	.050				-.2100	-.1760	-.1390	-.1350
	.081			-.1930				
	.086		-.1850					
	.094	-.1600						
	.150				-.2320	-.2020	-.1710	-.1670
	.177			-.1960				
	.229	-.1890						
	.246		-.1910					
	.250				-.2330	-.2230	-.1960	-.1900
	.362	-.1850						
	.400				-.2320	-.2340		-.2010
	.402			-.2020				
	.497	-.1850						
	.550				-.2320	-.2100		
	.565			-.2050				
	.600							-.2070
	.650						-.2060	
	.700	-.2010				-.2100		
	.725				-.2320			
	.750						-.2070	-.2040
	.760			-.1990				
	.775				-.2320	-.2090		

AMES 87-707 OA12 O2A UPPER WING (RBQU10)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1960				
.834	-.1970						
.850				-.2290	-.2080	-.2080	
.857			-.2060				
.865	-.1930						
.900	-.1910			-.2250			-.2110
.905			-.2120				
.950				-.2210	-.2070	-.2080	
.953			-.2100				
.965	-.1710						

MACH (1) = 2.498 BETA (5) = 6.240

Y/BW	.299	.364	.42[illegible]	.[illegible]	.673	.780	.887
X/CW							
.000	-.1960	-.2080	-.1650	.2600	.3260	.3110	.2300
.050				-.2140	-.1900	-.1670	-.1[illegible]50
.[illegible]1			-.2030				
.086		-.1950					
.094	-.1990						
.150				-.2250	-.2120	-.1890	-.1[illegible]
.177			-.2050				
.229	-.1990						
.246		-.2030					
.250				-.2260	-.2250	-.2[illegible]	-.1960
.362	-.2010						
.400				-.2220	-.2[illegible]		-.1900
.402			-.2000				
.497	-.2020						
.550				-.2210	-.2000		
.565			-.1950				
.600							-.1870
.650						-.1920	
.700	-.1950				-.1970		
.725				-.2080			
.750						-.1910	-.1870
.760			-.1850				
.775				-.2030	-.1950		
.808			-.1810				
.834	-.1950						
.850				-.2000	-.1950	-.1900	
.857			-.1910				
.865	-.1860						
.900	-.1840			-.1970			-.1860
.905			-.1900				
.950				-.1970	-.1960	-.1810	
.953			-.1900				

AMES [illegible] / CA12 CCA UPPER WING (RDGU1G)

SECTION (1) UPPER DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = 5.240	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.965	-.1710						
MACH (2) = 3.501 BETA (1) = -6.710	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.0560	-.0370	.2130	1.2600	1.0380	.8550	.7600
	.050				.0250	.0730	.0410	.0320
	.081			-.0700				
	.086		-.0390					
	.094	-.0490						
	.150				-.0600	-.0170	.0010	-.0360
	.177			-.0770				
	.229	-.0560						
	.246		-.0510					
	.250				-.0950	-.0680	-.0350	-.0700
	.362	-.0510						
	.400				-.1120	-.0960		-.0860
	.402			-.0870				
	.497	-.0660						
	.550				-.1130	-.1010		
	.565			-.0910				
	.600							-.0970
	.650						-.0850	
	.750	-.0830				-.0990		
	.725				-.1100			
	.750						-.0980	-.0940
	.763			-.0860				
	.775				-.1120	-.0970		
	.802			-.0850				
	.834	-.0830						
	.850				-.1130	-.0970	-.0960	
	.857			-.1000				
	.865	-.0850						
	.900	-.0850			-.1090			-.0960
	.905			-.1010				
	.950				-.1060	-.0970	-.1000	
	.953			-.1020				
	.965	-.0770						
MACH (2) = 3.501 BETA (2) = -3.440	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.0700	-.0620	.1050	1.0530	1.0220	.7930	.6800
	.050				-.0200	.0470	.0710	.0200
	.081			-.0870				
	.086		-.0670					
	.094	-.0690						

AMES 87-707 CA12 C2A UPPER WING (RBCU10)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0830	-.0300	-.0070	-.0370
.177			-.0860				
.229	-.0680						
.246		-.0730					
.250				-.1100	-.0780	-.0550	-.0610
.362	-.0710						
.400				-.1190	-.1030		-.0740
.402			-.0920				
.497	-.0830						
.550				-.1190	-.1060		
.565			-.0920				
.600							-.0890
.650						-.0950	
.700	-.0950				-.1030		
.725				-.1170			
.750						-.1030	-.0890
.760			-.0920				
.775				-.1180	-.1030		
.808			-.0900				
.834	-.0950						
.850				-.1180	-.1020	-.1010	
.857			-.1050				
.865	-.0890						
.900	-.0880			-.1160			-.1020
.905			-.1060				
.950				-.1120	-.1030	-.1030	
.953			-.1070				
.965	-.0790						

MACH (2) = 3.501 BETA (3) = -.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0850	-.0850	.0190	.8370	.8550	.8610	.5890
.050				-.0900	-.0050	.0450	.0510
.081			-.1080				
.086		-.1000					
.094	-.1000						
.150				-.1000	-.0580	-.0250	-.0220
.177			-.1100				
.229	-.1000						
.246		-.1040					
.250				-.1190	-.0950	-.0660	-.0620
.362	-.1020						
.400				-.1200	-.1160		-.0810
.402			-.1110				
.497	-.1070						

AMES 87-707 OA12 OEA UPPER WING (RBGUID)

SECTION (1/[illegible]) DEPENDENT VARIABLE CP

MACH (2) = [illegible] (3) = -.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1210	-.1030		
.565			-.1140				
.600							-.0900
.650						-.1000	
.700	-.1100				-.1040		
.725				-.1200			
.750						-.1030	-.0980
.760			-.1130				
.775				-.1210	-.1030		
.808			-.1110				
.834	-.1090						
.850				-.1200	-.1020	-.1060	
.857			-.1000				
.865	-.1080						
.900	-.1090			-.1190			-.1060
.905			-.1090				
.950				-.1190	-.1020	-.1040	
.953			-.1120				
.965	-.1040						

MACH (2) = 3.501 BETA (4) = 3.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0890	-.0960	-.0330	.6540	.6730	.6820	.5960
.050				-.0870	-.0440	-.0020	.0160
.081			-.1010				
.086		-.0960					
.094	-.0900						
.150				-.1110	-.0800	-.0490	-.0410
.177			-.1040				
.229	-.0970						
.246		-.0970					
.250				-.1240	-.1070	-.0810	-.0740
.362	-.0970						
.400				-.1260	-.1210		-.0900
.402			-.1030				
.497	-.0990						
.550				-.1260	-.1080		
.565			-.1020				
.600							-.1060
.650						-.1040	
.700	-.1000				-.1090		
.725				-.1260			
.750						-.1080	-.1020
.760			-.1010				
.775				-.1250	-.1090		

AMES 87-707 OA12 O2A UPPER WING (SEQU10)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.160

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.808			-.1000				
.834	-.0990						
.850				-.1260	-.1090	-.1090	
.857			-.1130				
.865	-.0990						
.900	-.0980			-.1230			-.1110
.905			-.1140				
.950				-.1210	-.1080	-.1110	
.953			-.1180				
.965	-.0960						

MACH (2) = 3.501 BETA (5) = 6.480

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0950	-.1040	-.0670	.4860	.5140	.5220	.4540
.050				-.1060	-.0720	-.0390	-.0240
.081			-.1030				
.086		-.0990					
.094	-.0910						
.150				-.1200	-.0990	-.0700	-.0470
.177			-.1060				
.229	-.1000						
.246		-.1010					
.250				-.1270	-.1170	-.0920	-.0860
.362	-.1000						
.400				-.1260	-.1200		-.1000
.402			-.1030				
.497	-.1010						
.550				-.1290	-.1080		
.565			-.1030				
.600							-.1110
.650						-.1050	
.700	-.1030				-.1100		
.725				-.1270			
.750						-.1100	-.1040
.760			-.1020				
.775				-.1260	-.1100		
.808			-.1010				
.834	-.1010						
.850				-.1240	-.1090	-.1090	
.857			-.1120				
.865	-.1040						
.900	-.1030			-.1210			-.1130
.905			-.1120				
.950				-.1190	-.1100	-.1110	
.953			-.1170				

AMES 87-70T CA12 C2A UPPER WING (RBGU10)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (5) = 6.480

Y/BW	.299	.364	.427	.534	.673	.780	.887
Y/CW							
.965	-.1040						

AMES 87-707 OA12 02A UPPER WING (RBGU11) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0620	.0560	.3460	1.0270	.9610	.9680	.9620
.050				.3270	.3620	.3810	.4330
.081			.1770				
.086		.1150					
.094	.0990						
.150				.0940	.1480	.1750	.1840
.177			.0390				
.229	.0770						
.246		.0380					
.250				-.0230	.0240	.0590	.0650
.362	.0490						
.400				-.1050	-.0650		-.0060
.402			-.0710				
.497	-.0070						
.550				-.1400	-.0580		
.565			-.1050				
.600							-.0250
.650						-.0260	
.700	-.0470				-.0[illegible]3		
.725				-.0240			
.750						-.0220	-.0080
.760			.0380				
.775				.0070	.0010		
.808			.0640				
.834	.0640						
.833				.0530	.0540	.10[illegible]	
.857			.1150				
.865	.2430						
.900	.3730			.1050			.2480
.905			.1740				
.950				.1300	.1480	.2300	
.953			.2560				
.965	.4840						

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.299	.364	.42[illegible]	.534	.673	.780	.887
X/CW							
.3[illegible]	.0270	.0290	.2370	.3130	.8460	.8530	.8390
.050				.2570	.2990	.3160	.3550
.081			.1240				
.0[illegible]		.0750					
.084	.0590						

AMES 67-737 CP12 02A UPPER WING (RBQU11)

SECTION (1)UPPER -- DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.259	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0480	.1090	.1310	.1360
.177			.0090				
.229	.0480						
.246		.0110					
.250				-.0500	-.0050	.0270	.0310
.362	.0190						
.400				-.1200	-.0840		-.0290
.402			-.0860				
.497	-.0260						
.550				-.1510	-.0900		
.565			-.1120				
.600							-.0520
.650						-.0540	
.700	-.0630				-.0460		
.725				-.0090			
.750						-.0490	-.0300
.760			.0190				
.775				.0080	-.0160		
.808			.0450				
.834	.0400						
.850				.0510	.0430	.0620	
.857			.0960				
.865	.2060						
.900	.3240			.0960			.2060
.905			.1470				
.950				.1240	.1170	.1660	
.953			.2310				
.965	.3700						

MACH (1) = 2.498 BETA (3) = -.220

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0020	.0090	.2600	.6130	.7400	.7530	.7390
.050				.1770	.2330	.2580	.2980
.081			.0740				
.086		.0420					
.094	.0260						
.150				-.0010	.0620	.0900	.0970
.177			-.0190				
.229	.0170						
.246		-.0140					
.250				-.0830	-.0390	-.0070	.0040
.362	-.0040						
.400				-.1380	-.1080		-.0500
.402			-.0910				
.497	-.0370						

AMES 87-707 OA12 OA UPPER WING (RSQU11)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.220

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1540	-.1150		
.565			-.1150				
.600							-.0730
.650						-.0750	
.700	-.0700				-.0740		
.725				-.0200			
.750						-.0670	-.0470
.760			-.0060				
.775				-.0080	-.0280		
.808			.0320				
.834	.0240						
.850				.0340	.0360	.0410	
.857			.1080				
.865	.1970						
.900	.3020			.0800			.1650
.905			.1830				
.950				.1130	.1050	.1410	
.953			.2790				
.965	.2780						

MACH (1) = 2.498 BETA (4) = 3.070

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0140	-.0100	.2120	.7230	.6610	.6730	.6470
.050				.1010	.1660	.1980	.2340
.081			.0260				
.086		.0060					
.094	-.0050						
.150				-.0410	.0130	.0460	.0580
.177			-.0440				
.229	-.0120						
.246		-.0360					
.250				-.1090	-.0750	-.0380	-.0260
.362	-.0200						
.400				-.1490	-.1330		-.0750
.402			-.0960				
.497	-.0440						
.550				-.1540	-.1170		
.565			-.1180				
.600							-.0790
.650						-.0810	
.700	-.0670				-.0760		
.725				-.0510			
.750						-.0640	-.0620
.760			.0080				
.775				-.0410	-.0450		

...MES 67-707 OA12 02A UPPER WING (RBQU11)

SECTION (1) UPPER ... DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.070

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.0470				
.834	.0210						
.850				.0120	.0100	.0000	
.857			.1360				
.865	.2200						
.900	.2430			.0710			.0970
.905			.2210				
.950				.1210	.0770	.0740	
.953			.3020				
.965	.2390						

MACH (1) = 2.498 BETA (5) = 6.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0350	-.0370	.1380	.6260	.5730	.5850	.5660
.050				.0340	.0940	.1360	.1760
.081			-.0280				
.086		-.0310					
.094	-.0420						
.150				-.0700	-.0290	.0060	.0190
.177			-.0760				
.229	-.0440						
.246		-.0570					
.250				-.1230	-.1000	-.0700	-.0550
.362	-.0360						
.400				-.1550	-.1460		-.0980
.402			-.1140				
.497	-.0640						
.550				-.1580	-.1270		
.565			-.1320				
.600							-.0830
.650						-.0750	
.700	-.0960				-.0660		
.725				-.0950			
.750						-.0630	-.0630
.760			-.0100				
.775				-.0150	-.0580		
.808			.0190				
.834	.0050						
.850				.0450	-.0140	-.0160	
.857			.0940				
.865	.0970						
.900	.1380			.0990			.0570
.905			.1610				
.950				.1370	.0540	.0300	
.953			.2550				

AMES 87-707 OA12 02A UPPER WING (FBGU11)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.2340						

MACH (2) = 3.502 BETA (1) = -6.670

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0840	.0880	.3890	1.1860	1.1120	1.1770	1.1800
.050				.3530	.4090	.4610	.5340
.081			.1790				
.085		.1210					
.094	.1010						
.150				.1310	.1870	.2290	.2500
.177			.0660				
.229	.0830						
.246		.0520					
.250				.0210	.0710	.1120	.1250
.362	0580						
.400				-.0450	-.0020		.0590
.402			-.0260				
.497	.0180						
.550				-.0750	-.0360		
.565			-.0530				
.600							.7000
.650						-.0140	
.700	-.0150				-.0330		
.725				-.0050			
.750						.0560	.0640
.760			.0010				
.775				.0050	7340		
.808			.0250				
.834	.0270						
.850				.0350	.1330	.1830	
.857			.0540				
.865	.1460						
.900	.2270			.0700			.2610
.905			.0960				
.950				.1030	.2040	.2460	
.953			.1570				
.965	.3920						

MACH (2) = 3.502 BETA (2) = -3.410

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0340	.0390	.2690	.9850	.9310	.9960	.9210
.050				.2730	.3080	.3560	.4150
.081			.1210				
.086		.0730					
.094	.0590						

YES 87-707 OA12 /02A UPPER WING (RBQV11)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -3.410

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0770	.1300	.1630	.1820
.177			.0270				
.229	.0460						
.246		.0240					
.250				-.0070	.0350	.0680	.0840
.362	.0260						
.400				-.0600	-.0280		.0290
.402			-.0430				
.497	-.0050						
.550				-.0850	-.0570		
.565			-.0610				
.600							-.0040
.650						-.0270	
.700	-.0340				-.0470		
.725				-.0400			
.750						.0240	.0640
.760			-.0250				
.775				-.0260	-.0160		
.808			-.0030				
.834	.0020						
.850				.0050	.0760	.1350	
.857			.0280				
.865	.0990						
.900	.1660			.0400			.2080
.905			.0680				
.950				.0740	.1410	.1880	
.953			.1140				
.965	.2500						

MACH (2) = 3.502 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0030	.0060	.2070	.8210	.7810	.8230	.8110
.050				.1960	.2300	.2760	.3250
.081			.0710				
.086		.0360					
.094	.0270						
.150				.0340	.0810	.1150	.1310
.177			.0010				
.229	.0200						
.246		-.0020					
.250				-.0360	.0000	.0360	.0460
.362	.0030						
.400				-.0810	-.0530		.0010
.402			-.0530				
.497	-.0220						

AMES 87-707 0.12 02A UPPER WING (REQUI1)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.160

Y/BW / X/CW	.209	.304	.427	.534	.673	.780	.887
.550				-.0910	-.0790		
.665			-.0650				
.690							-.0260
.651						-.0410	
.700	-.0470				-.0540		
.725				-.0600			
.750						-.0200	.0040
.760			-.0400				
.775				-.0450	-.0340		
.808			-.0240				
.838	-.0140						
.850				-.0190	.0420	.0970	
.857			.0060				
.888	.0730						
.900	.1340			.0130			.1480
.905			.0335				
.950				.0360	.1050	.1500	
.953			.0760				
.965	.1670						

MACH (2) = 3.502 BETA (4) = 3.130

Y/EW / X/CW	.299	.364	.427	.534	.673	.780	
.000	-.0070	-.0030	.1500	.6810	.6510	.5770	70
.050				.1110	.1540	.0770	.0460
.081			.0340				
.086		.0150					
.094	.0060						
.150				-.0070	.0320	.0720	.0870
.177			-.0180				
.229	.0040						
.246		-.0130					
.250				-.0810	-.0360	.0070	.0160
.362	-.0070						
.400				-.0980	-.0800		-.0210
.402			-.0560				
.497	-.0260						
.550				-.1050	-.0730		
.565			-.0690				
.600							-.0410
.650						-.0520	
.700	-.0470				-.0630		
.725				-.0790			
.750						-.0520	-.0260
.760			-.0360				
.775				-.0670	-.0500		

.453 .7-.50 CA12 C2A UPPER WING (REQU11)

SECTION (1 UPPER WING) DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.190

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0220				
.834	-.0200						
.850				-.0430	-.0100	.0460	
.857			.0010				
.865	.0640						
.900	.1100			-.0170			.0990
.905			.0280				
.950				.0070	.0500	.1010	
.953			.0790				
.965	.1420						

MACH (2) = 3.502 BETA (5) = 6.530

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0270	-.0270	.0760	.5200	.5250	.5560	.5400
.050				.0540	.1010	.1470	.1850
.081			.0040				
.086		-.0010					
.094	-.0030						
.150				-.0330	.0080	.0430	.0550
.177			-.0310				
.229	-.0070						
.246		-.0230					
.250				-.0730	-.0500	-.0140	-.0050
.362	-.0160						
.400				-.0980	-.0820		-.0360
.402			-.0560				
.497	-.0310						
.550				-.0980	-.0660		
.565			-.0650				
.600							-.0520
.650						-.0570	
.700	-.0450				-.0610		
.725				-.0780			
.750						-.0560	-.0470
.760			-.0310				
.775				-.0680	-.0550		
.808			-.0140				
.834	-.0220						
.850				-.0460	-.0330	.0010	
.857			.0130				
.865	.0430						
.900	.0810			-.0180			.0650
.905			.0550				
.950				.0060	-.0010	.0570	
.953			.1030				

AMES 87-707 OA12 O2A UPPER WING (PBGU11)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 6.530

Y/BW	.299	.364	.427	.534	.673	.785	.887
X/CW							
.965	.1740						

AMES 67-707 OA12 C2A UPPER WING (RBQU12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8480 INCHES YMRP = .0000 INCHES
BREF = 39.8480 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.530

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0270	-.0090	.3520	1.0590	.9710	1.0000	.9530
.050				.0410	.1150	.1680	.2230
.081			-.0380				
.086		.0130					
.094	.0130						
.150				-.0840	-.0160	.0170	.0360
.177			-.1160				
.229	.0230						
.246		-.0640					
.250				-.1450	-.0970	-.0630	-.0500
.362	-.0120						
.400				-.1820	-.1540		-.0940
.402			-.1480				
.497	-.0460						
.550				-.1770	-.1630		
.565			-.1460				
.600							-.1260
.650						-.1350	
.700	-.0980				-.1550		
.725				-.1740			
.750						-.1450	-.0440
.760			-.1400				
.775				-.1650	-.1560		
.808			-.1190				
.834	-.0840						
.850				-.1340	-.0680	-.0190	
.857			-.1230				
.865	.0410						
.900	.1370			-.0930			.1040
.905			-.0550				
.950				-.0510	.0060	.0970	
.953			.0160				
.965	.3550						

MACH (1) = 2.498 BETA (2) = -3.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0750	-.0760	.2060	.9030	.8360	.8750	.8190
.050				-.0550	.0220	.1050	.1550
.081			-.0940				
.086		-.0380					
.094	-.0230						

AMES 87-707 OA12 02A UPPER WING (RBGU12)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1540	-.0870	-.0260	-.0060
.177			-.1380				
.229	-.0180						
.246		-.0820					
.250				-.1990	-.1580	-.0530	-.0810
.362	-.0500						
.400				-.2220	-.2010		-.1180
.402			-.1620				
.497	-.0850						
.550				-.2210	-.1830		
.565			-.1640				
.600							-.1450
.650						-.1520	
.700	-.1310				-.1720		
.725				-.2220			
.750						-.1640	-.0870
.760			-.1480				
.775				-.2150	-.1720		
.808			-.1300				
.834	-.1290						
.850				-.1890	-.1200	-.0660	
.857			-.1930				
.865	.0040						
.900	.1170			-.1440			.0370
.905			-.1590				
.950				-.1040	-.0410	-.0110	
.953			-.1300				
.965	.2910						

MACH (1) = 2.498 BETA (3) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1140	-.1220	.0560	.7450	.7070	.7400	.6930
.050				-.1190	-.0450	.0400	.0890
.081			-.1400				
.086		-.0900					
.094	-.0970						
.150				-.1900	-.1350	-.0640	-.0440
.177			-.1580				
.229	-.0990						
.246		-.1160					
.250				-.2250	-.1900	-.1240	-.1090
.362	-.0970						
.400				-.2350	-.2240		-.1380
.402			-.1770				
.497	-.1260						

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AMES 67-70Y OA12 OEA UPPER WING (RBOU12)

SECTION (1) UPPER SURF DEPENDENT VARIABLE CP

MACH (1) = 2.498 (2) = [illegible] (3) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2360	-.1800		
.565			-.1770				
.600							-.1630
.650						-.1700	
.700	-.1570				-.1770		
.725				-.2380			
.750						-.1800	-.1230
.760			-.1560				
.775				-.2300	-.1770		
.776			-.1390				
.834	-.1570						
.850				-.1980	-.1710	-.1010	
.857			-.1770				
.935	-.0470						
.900	.0770			-.1580			-.0040
.905			-.1780				
.930				-.1480	-.1030	-.0450	
.953			-.1850				
.965	.1080						

MACH (1) = 2.498 BETA (4) = 3.020

Y/BW	.299	.331	.427	.534	.673	.780	.887
X/CW							
.000	-.1260	-.1350	-.1340	.6030	.6000	.6270	.5750
.000				-.1690	-.1010	-.0060	.0340
.001			-.1400				
.006		-.1140					
.094	-.1180						
.150				-.2270	-.1720	-.0900	-.0730
.177			-.1560				
.229	-.1210						
.246		-.1280					
.250				-.2540	-.2160	-.1400	-.1230
.362	-.1170						
.400				-.2520	-.2470		-.1500
.402			-.1760				
.497	-.1420						
.550				-.2490	-.1740		
.565			-.1740				
.600							-.1580
.650						-.1590	
.700	-.1610				-.1730		
.725				-.2470			
.750						-.1580	-.1520
.760			-.1400				
.775				-.2400	-.1650		

AMES 87-707 OA12 02A UPPER WING (RBQU12)

SECTION (1) OF WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1400				
.834	-.1410						
.850				-.2150	-.1580	-.1540	
.857			-.1820				
.865	-.0090						
.900	.0900			-.1930			-.0620
.905			-.1470				
.950				-.1750	-.1380	-.1270	
.953			-.1120				
.965	.0500						

MACH (1) = 2.498 BETA (5) = 6.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1380	-.1540	-.1350	.4500	.4780	.5030	.4550
.050				-.1710	-.1240	-.0580	-.0210
.081			-.1530				
.086		-.1340					
.094	-.1440						
.150				-.2140	-.1730	-.1200	-.1030
.177			-.1680				
.229	-.1560						
.246		-.1580					
.250				-.2250	-.2080	-.1600	-.1470
.362	-.1480						
.400				-.2270	-.2220		-.1560
.402			-.1800				
.497	-.1590						
.550				-.2170	-.1890		
.565			-.1920				
.600							-.1500
.650						-.1660	
.700	-.1610				-.1900		
.725				-.2080			
.750						-.1650	-.1520
.760			-.1590				
.775				-.2010	-.1850		
.808			-.1380				
.834	-.1330						
.850				-.1950	-.1710	-.1600	
.857			-.1030				
.865	-.0140						
.900	.0360			-.1950			-.1340
.905			-.0710				
.950				-.1890	-.1480	-.1420	
.953			-.0160				

AMES 87-70 OA12 02A UPPER WING (RBQU12)

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0600						

MACH (2) = 3.502 BETA (1) = -6.750

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0020	.0360	.4210	1.2700	1.1910	1.0340	.9310
.050				.1210	.1820	.2370	.1930
.081			.0220				
.086		.0350					
.094	.0280						
.150				-.0340	.0310	.0830	.0540
.177			-.0430				
.229	.0310						
.246		-.0230					
.250				-.0950	-.0540	.0080	.0000
.362	.0100						
.400				-.1320	-.1020		-.0280
.402			-.0750				
.497	-.0250						
.550				-.1480	-.0810		
.565			-.0800				
.600							-.0390
.650						-.0530	
.700	-.0560				-.0770		
.725				-.1390			
.750						-.0570	-.0160
.760			-.0670				
.775				-.1360	-.0710		
.808			-.0570				
.834	-.0630						
.850				-.1190	-.0150	.0490	
.857			-.0920				
.865	.0050						
.900	.0720			-.0770			.1100
.905			-.0730				
.950				-.0390	.0510	.1050	
.953			-.0310				
.965	.2660						

MACH (2) = 3.502 BETA (2) = -3.460

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0340	-.0110	.2740	1.0780	1.0200	1.0500	.9770
.050				.0540	.1200	.2030	.2410
.081			-.0160				
.086		-.0020					
.094	-.0160						

AMES 87-707 OA12 02A UPPER WING (PBQU12)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -3.460

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0620	-.0040	.0640	.0700
.177			-.0620				
.229	-.0030						
.246		-.0400					
.250				-.1100	-.0730	-.0050	.0000
.362	-.0190						
.400				-.1370	-.1130		-.0360
.402			-.0810				
.497	-.0440						
.550				-.1450	-.0870		
.565			-.0960				
.600							-.0580
.650						-.0580	
.700	-.0670				-.0850		
.725				-.1430			
.750						-.0670	-.0340
.760			-.0760				
.775				-.1390	-.0860		
.808			-.0630				
.834	-.0740						
.850				-.1290	-.0310	-.0110	
.857			-.0980				
.865	-.0340						
.900	.0160			-.1010			.0780
.905			-.1030				
.950				-.0740	.02	.0620	
.953			-.0850				
.965	.1910						

MACH (2) = 3.502 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0620	-.0610	.1160	.8820	.8520	.8710	.8120
.050				-.0220	.0450	.1400	.1740
.081			-.0580				
.086		-.0350					
.094	-.0440						
.150				-.1030	-.0520	.0270	.0410
.177			-.0790				
.229	-.0480						
.246		-.0540					
.250				-.1390	-.1070	-.0290	-.0190
.362	-.0460						
.400				-.1560	-.1370		-.0510
.402			-.0870				
.497	-.0530						

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AMES 67-707 OA12 O2A UPPER WING (RBOU12)

SECTION (1 UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1590	-.0950		
.565			-.0900				
.600							-.0690
.650						-.0710	
.700	-.0800				-.0920		
.725				-.1580			
.750						-.0770	-.0480
.760			-.0830				
.775				-.1550	-.0920		
.806			-.0760				
.834	-.0830						
.850				-.1500	-.0700	-.0400	
.857			-.1360				
.865	-.0590						
.900	-.0280			-.1360			.0370
.905			-.1390				
.950				-.1190	-.0220	.0140	
.953			-.1350				
.965	.0760						

MACH (2) = 3.502 BETA (4) = 3.140

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0720	-.0840	-.0010	.6780	.6800	.7020	.6540
.050				-.0400	.0270	.0770	.1100
.081			-.0710				
.086		-.0550					
.094	-.0600						
.150				-.0890	-.0430	-.0070	.0040
.177			-.0790				
.229	-.0630						
.246		-.0650					
.250				-.1100	-.0860	-.0540	-.0420
.362	-.0650						
.400				-.1160	-.1080		-.0660
.402			-.0870				
.497	-.0730						
.550				-.1170	-.1000		
.565			-.0850				
.600							-.0810
.650						-.0830	
.700	-.0840				-.0980		
.725				-.1160			
.750						-.0880	-.0710
.760			-.0820				
.775				-.1170	-.0980		

AMES 67-707 OA12 02A UPPER WING (RBQU12)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 5.140

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.808			-.0820				
.834	-.0820						
.850				-.1130	-.0970	-.0710	
.857			-.0930				
.865	-.0560						
.900	-.0170			-.1100			.0030
.903			-.1010				
.950				-.1030	-.0700	-.0400	
.953			-.1020				
.965	.0040						

MACH (2) = 3.502 BETA (5) = 6.430

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0840	-.0950	-.0690	.4920	.5320	.5590	.5160
.050				-.1210	-.0560	.0280	.0590
.081			-.0700				
.066		-.0700					
.034	-.0740						
.150				-.1520	-.1140	-.0330	-.0[illegible]0
.177			-.0880				
[illegible]2[illegible]	-.0760						
.243		-.0810					
.250				-.1670	-.1470	-.0720	-.0620
.262	-.0790						
.[illegible]				-.1[illegible]0	-.1[illegible]		-.0820
.[illegible]2			-.0920				
.497	-.0820						
.553				-.1650	-.[illegible]000		
.565			-.[illegible]990				
.900							-.0930
.850						-.0950	
.[illegible]70	-.0990				-.1010		
.[illegible]2[illegible]				-.1650			
.[illegible]70						-.0970	-.0860
.760			-.0690				
.775				-.1640	-.0970		
.[illegible]78			-.0[illegible]60				
.834	-.0840						
.850				-.1[illegible]90	-.0970	-.0910	
.85[illegible]			-.1[illegible]70				
.[illegible]63	-.0400						
.900	.0010			-.1560			-.0340
.905			-.1[illegible]60				
.950				-.1530	-.0890	-.0640	
.953			-.1280				



[illegible] 87.707 OA 2 O2A UPPER WING (RBQU12)

SECTION (1) UPPER (1) DEPENDENT VARIABLE CP

MACH (2) = 3.702 BETA (5) = 5.430

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0200						

AMES 87-707 OA12 O2A UPPER WING (PBGU13) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1370	-.1320	.0710	.8950	.8870	.8770	.7460
.050				-.1070	-.0510	-.0080	.0130
.081			-.1280				
.086		-.0940					
.094	-.1090						
.150				-.1730	-.1210	-.0910	-.0610
.177			-.1470				
.229	-.1090						
.246		-.1080					
.250				-.1970	-.1710	-.1390	-.1290
.362	-.1050						
.400				-.1930	-.1950		-. [illegible]
.402			-.1700				
.497	-.1370						
.550				-.1920	-.1730		
.565			-.1670				
.600							-.1700
.650						-.1680	
.700	-.1650				-.[illegible]		
.725				-.2010			
.750						-.1730	-.1060
.760			-.1460				
.775				-.2020	-.1580		
.808			-.1210				
.834	-.1530						
.850				-.1920	-.1630	-.1570	
.857			-.1210				
.865	-.0960						
.900	-.0040			-.1740			-.0230
.905			-.1130				
.950				-.1450	-.1320	-.0820	
.953			-.1150				
.965	.0550						

MACH (1) = 2.498 BETA (2) = -3.330

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1700	-.1660	-.0150	.7180	.7280	.7260	.6060
.050				-.1490	-.0980	-.0550	-.0410
.081			-.1580				
.086		-.1330					
.094	-.1490						

AMCS 67-707 OA12 02A UPPER WING (REQU13)

SECTION (1)UPPER (L DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.330

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1940	-.1500	-.1200	-.1120
.177			-.1690				
.229	-.1490						
.246		-.1450					
.250				-.2090	-.1900	-.1600	-.1500
.362	-.1500						
.400				-.2050	-.2080		-.1710
.402			-.1850				
.497	-.1680						
.550				-.2060	-.1870		
.565			-.1860				
.600							-.1840
.650						-.1820	
.700	-.1860				-.1650		
.725				-.2110			
.750						-.1870	-.1430
.760			-.1750				
.775				-.2120	-.1830		
.808			-.1620				
.834	-.1720						
.850				-.2080	-.1810	-.1760	
.857			-.1620				
.865	-.1130						
.900	-.0890			-.1990			-.0680
.905			-.1630				
.950				-.1790	-.1610	-.1220	
.953			-.1650				
.965	-.0090						

MACH (1) = 2.498 BETA (3) = -.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1800	-.1840	-.0870	.5470	.5810	.5830	.4770
.050				-.1880	-.1510	-.0980	-.0890
.061			-.1830				
.086		-.1600					
.094	-.1710						
.150				-.2210	-.1870	-.1460	-.1400
.177			-.1910				
.229	-.1730						
.246		-.1790					
.250				-.2290	-.2160	-.1790	-.1720
.362	-.1780						
.400				-.2290	-.2220		-.1890
.402			-.1960				
.497	-.1790						

AMES 87-707 OA12 O2A UPPER WING (5D2013)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2260	-.1950		
.565			-.1970				
.600							-.1920
.650						-.1930	
.700	-.1930				-.1940		
.725				-.2300			
.750						-.1940	-.1730
.760			-.1690				
.775				-.2270	-.1950		
.808			-.1800				
.834	-.1850						
.850				-.2240	-.1910	-.1930	
.857			-.1990				
.865	-.1530						
.900	-.1310			-.2170			-.0970
.905			-.1970				
.950				-.2050	-.1770	-.1770	
.953			-.1900				
.965	-.0520						

MACH (1) = 2.498 BETA (4) = 3.040

Y/BW	.299	.364	.427	.534	.673	.780	.87
X/CW							
.000	-.2010	-.2050	-.1420	.3930	.4530	.3410	.3430
.050				-.1940	-.1640	-.1300	-.1260
.081			-.1830				
.086		-.1720					
.094	-.1770						
.150				-.2190	-.1920	-.1640	-.1570
.177			-.1890				
.229	-.1780						
.246		-.1820					
.250				-.2210	-.2150	-.1870	-.1830
.362	-.1740						
.400				-.2200	-.2140		-.1920
.402			-.1950				
.497	-.1740						
.550				-.2200	-.1970		
.565			-.1920				
.600							-.1920
.650						-.1920	
.700	-.1910				-.1970		
.725				-.2220			
.750						-.1920	-.1900
.760			-.1770				
.775				-.2210	-.1970		

AMES 87-707 OA12 02A UPPER WING (RBQU13)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1630				
.834	-.1770						
.850				-.2170	-.1940	-.1920	
.857			-.1680				
.865	-.1590						
.900	-.1490			-.2090			-.1440
.905			-.1850				
.950				-.1980	-.1830	-.1900	
.953			-.1700				
.965	-.1460						

MACH (1) = 2.498 BETA (5) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1980	-.2090	-.1660	.2610	.3260	.3150	.2290
.050				-.2160	-.2030	-.1660	-.1640
.081			-.1540				
.086		-.1870					
.094	-.1890						
.150				-.2390	-.2260	-.1900	-.1870
.177			-.1970				
.229	-.1860						
.246		-.1920					
.250				-.2410	-.2390	-.2010	-.1800
.362	-.1830						
.400				-.2410	-.2380		-.1780
.402			-.1950				
.497	-.1830						
.550				-.2360	-.2060		
.565			-.1870				
.600							-.1770
.650						-.1960	
.700	-.1950				-.2060		
.725				-.2340			
.750						-.1930	-.1750
.760			-.1740				
.775				-.2290	-.2050		
.800			-.1610				
.834	-.1820						
.850				-.2160	-.2020	-.1880	
.857			-.1960				
.865	-.1750						
.900	-.1740			-.2030			-.1680
.905			-.1830				
.950				-.1910	-.1930	-.1800	
.953			-.1280				

AMES 67-707 OA12 02A UPPER WING (RBQU13)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.1720						

MACH (2) = 3.502 BETA (1) = -8.710

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0490	-.0340	.2150	1.2640	1.0410	.8610	.7610
.050				.0250	.0760	.0500	.0410
.081			-.0610				
.086		-.0260					
.094	-.0390						
.150				-.0600	-.0150	.0020	-.0330
.177			-.0690				
.229	-.0450						
.246		-.0420					
.250				-.0970	-.0680	-.0340	-.0640
.362	-.0440						
.400				-.1110	-.0960		-.0730
.402			-.0800				
.497	-.0590						
.550				-.1110	-.0960		
.565			-.0820				
.600							-.0700
.650						-.0680	
.700	-.0720				-.0940		
.725				-.1110			
.750						-.0730	-.0730
.760			-.0780				
.775				-.1080	-.0890		
.808			-.0750				
.834	-.0770						
.850				-.1050	-.0520	-.0390	
.857			-.0870				
.865	-.0530						
.900	-.0290			-.0960			-.0490
.905			-.0750				
.950				-.0780	-.0030	.0160	
.953			-.0580				
.965	.0740						

MACH (2) = 3.502 BETA (2) = -3.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0680	-.0640	.1060	1.0550	1.0280	.7980	.6560
.050				-.0240	.0480	.0730	.0240
.081			-.0810				
.086		-.0600					
.094	-.0670						

AMES [illegible]-707 OA12 02A UPPER WING (RBQU13)

SECTION (1)UPPER WING OLIGOCENT VARIABLE CP

MACH (2) = [illegible] BETA (2) = -3.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0810	-.0320	-.0100	-.0380
.177			-.0850				
.229	-.0590						
.246		-.0700					
.250				-.1070	-.0770	-.0560	-.0630
.362	-.0690						
.400				-.1190	-.1040		-.0720
.402			-.0900				
.497	-.0600						
.550				-.1190	-.1040		
.565			-.0910				
.600							-.0760
.650						-.0870	
.700	-.0870				-.1040		
.725				-.1170			
.750						-.0930	-.0610
.760			-.0890				
.775				-.1150	-.1010		
.808			-.0850				
.834	-.0870						
.850				-.1120	-.0930	-.0510	
.857			-.0940				
.865	-.0730						
.900	-.0530			-.1060			.0040
.905			-.0960				
.950				-.0960	-.0580	.0010	
.953			-.0980				
.965	-.0130						

MACH (2) = 3.502 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0840	-.0840	.0210	.8390	.8620	.8650	.5950
.050				-.0600	-.0030	.0490	.0560
.081			-.0870				
.086		-.0770					
.094	-.0770						
.150				-.1020	-.0600	-.0230	-.0180
.177			-.0890				
.229	-.0780						
.246		-.0810					
.250				-.1190	-.0960	-.0640	-.0580
.362	-.0820						
.400				-.1210	-.1150		-.0790
.402			-.0920				
.497	-.0860						

AMES 87-707 OA12 C2A UPPER WING (RBQU13)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1220	-.1030		
.565			-.0920				
.600							-.0930
.650						-.0910	
.700	-.0890				-.1010		
.725				-.1240			
.750						-.0990	-.0690
.760			-.0900				
.775				-.1220	-.1020		
.808			-.0890				
.834	-.0880						
.850				-.1210	-.1020	-.0800	
.857			-.1010				
.865	-.0760						
.900	-.0730			-.1180			-.0070
.905			-.1040				
.950				-.1130	-.0800	-.0350	
.953			-.1090				
.965	-.0650						

MACH (2) = 3.502 BETA (4) = 3.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0930	-.0960	-.0330	.6550	.6740	.6830	.5970
.050				-.0860	-.0420	.0010	.0210
.081			-.0930				
.086		-.0850					
.094	-.0840						
.150				-.1090	-.0780	-.0480	-.0400
.177			-.0930				
.229	-.0870						
.246		-.0890					
.250				-.1220	-.1060	-.0800	-.0740
.362	-.0870						
.400				-.1240	-.1190		-.0900
.402			-.0930				
.497	-.0870						
.550				-.1240	-.1050		
.565			-.0910				
.600							-.1010
.650						-.1020	
.700	-.0880				-.1080		
.725				-.1220			
.750						-.1070	-.0860
.760			-.0900				
.775				-.1230	-.1080		

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-7S7 OA12 O2A UPPER WING (R5QU13)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0900				
.834	-.0880						
.850				-.1220	-.1100	-.1000	
.857			-.1070				
.865	-.0880						
.900	-.0900			-.1205			-.0570
.905			-.1080				
.950				-.1170	-.1020	-.0710	
.953			-.1070				
.965	-.0760						

MACH (2) = 3.502 BETA (5) = 6.470

Y/BW	.290	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1010	-.1060	-.0720	.4840	.5140	.5200	.4500
.050				-.1340	-.0990	-.0380	-.0200
.081			-.0980				
.086		-.0910					
.094	-.0900						
.150				-.1470	-.1260	-.0700	-.0610
.177			-.0970				
.229	-.0900						
.246		-.0930					
.250				-.1540	-.1450	-.0930	-.0870
.362	-.0910						
.400				-.1530	-.1530		-.0990
.402			-.0950				
.497	-.0940						
.550				-.1540	-.1030		
.565			-.0930				
.600							-.1050
.650						-.1030	
.700	-.0930				-.1060		
.725				-.1530			
.750						-.1070	-.0980
.760			-.0930				
.775				-.1530	-.1070		
.808			-.0910				
.834	-.0930						
.850				-.1510	-.1070	-.1060	
.857			-.1400				
.865	-.0900						
.900	-.0890			-.1480			-.0800
.905			-.1420				
.950				-.1490	-.1040	-.1050	
.953			-.1420				

AMES 87-707 OA12 02A UPPER WING (RBQU13)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0840						

YES 87-707 (MOD) 72A UPPER WING (RBGU14) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8400 INCHES YMRP = .0000 INCHES
BREF = 39.8400 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0520	.0470	.3360	*.0200	.9520	.9600	.9790
.050				.3270	.3630	.3790	.4300
.081			.1750				
.086		.1140					
.094	.0960						
.150				.1030	.1510	.1660	.1850
.177			.0370				
.229	.0740						
.246		.0360					
.250				-.0160	.0720	.1380	.1900
.362	.0440						
.400				.0160	.1170		.1940
.402			-.0760				
.497	-.0110						
.550				.0800	.1850		
.565			.0740				
.600							.2040
.650						.1860	
.700	.0520				.1750		
.725				.0940			
.750						.1900	.2240
.760			.1350				
.775				.1210	.1750		
.808			.1580				
.834	.2200						
.850				.0990	.1780	.2800	
.857			.1680				
.865	.3660						
.900	.6970			.1260			.4490
.905			.2890				
.950				.1590	.1930	.4180	
.953			.5120				
.965	.8680						

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0190	.0190	.2860	.9060	.8400	.8440	.8510
.050				.2510	.3000	.3130	.3500
.081			.1190				
.086		.0660					
.094	.0550						

AMES 87-707 OA12 CLA UPPER WING (FBQU14)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0440	.1070	.1210	.1360
.177			.0000				
.229	.0380						
.246		.0010					
.250				-.0480	.0350	.1160	.1560
.362	.0090						
.400				-.0310	.0750		.1510
.402			-.0950				
.497	-.0370						
.550				.0470	.1390		
.565			.0290				
.600							.1600
.650						.1440	
.700	.0130				.1350		
.725				.0590			
.750						.1430	.1770
.760			.1010				
.775				.0850	.1380		
.808			.1190				
.834	.1660						
.850				.0740	.1330	.1790	
.857			.1330				
.865	.2980						
.900	.6420			.1100			.3470
.905			.2430				
.950				.1440	.1490	.2820	
.953			.4940				
.965	.5500						

MACH (1) = 2.498 BETA (3) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0050	.0020	.2510	.6050	.7330	.7460	.7500
.050				.1720	.2280	.2540	.2690
.081			.0510				
.086		.0320					
.094	.0170						
.150				-.0010	.0550	.0790	.1020
.177			-.0330				
.229	.0150						
.246		-.0340					
.250				-.0840	.0000	.0750	.1300
.362	-.0160						
.400				-.0390	.0400		.1200
.402			-.0950				
.497	-.0490						

DATE 13 SEP 73 - SULATED PRESSURE DATA - CA12C

...CS 87-707 CA12 02A UPPER WING (RB3014)

SECTION 1(UPPER W...

DEPENDENT VARIABLE CP

MACH (1) = 2.498 BE A (3) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.0120	.1090		
.565			-.0100				
.600							.1230
.650						.1160	
.700	-.0020				.0940		
.725				.0240			
.750						.1140	1420
.760			.0910				
.775				.0530	.0980		
.808			.1090				
.834	.1610						
.850				.0500	.0900	.1240	
.857			.1580				
.865	.2830						
.900	.4280			.0910			.2670
.905			.2730				
.950				.1480	.1010	.1690	
.953			.5620				
.965	.3890						

MACH (1) = 2.498 BETA (4) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0200	-.0150	.2050	.7190	.6560	.6680	.6520
.050				.1050	.1670	.1970	.2330
.081			.0200				
.086		.0030					
.094	-.0120						
.150				-.0360	.0150	.0420	.1080
.177			-.0510				
.229	-.0120						
.246		-.0420					
.250				-.1020	-.0370	.0390	.1360
.362	-.0270						
.400				-.0720	-.0040		.1170
.402			-.0880				
.497	-.0520						
.550				-.0350	.0550		
.565			-.0390				
.600							.1020
.650						.0880	
.700	-.0240				.0660		
.725				.0170			
.750						.0860	.1020
.760			.0720				
.775				.0480	.0720		

AMES 87-707 OA12 O2A UPPER WING (REQU14)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.0970				
.834	.1880						
.850				.0630	.0580	.0850	
.857			.1490				
.865	.3410						
.900	.2620			.1320			.1490
.905			.3320				
.950				.2180	.1100	.1100	
.953			.7160				
.965	.3680						

MACH (1) = 2.498 BETA (5) = 6.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0390	-.0400	.1360	.6200	.5680	.5840	.5170
.050				.0370	.0970	.1340	.1790
.081			-.0130				
.086		-.0140					
.094	-.0270						
.150				-.0580	-.0240	.0340	.0670
.177			-.0630				
.229	-.0300						
.246		-.0450					
.250				-.0820	-.0100	.0650	.0780
.362	-.0260						
.400				-.0530	.0180		.0620
.402			-.0850				
.497	-.0490						
.550				-.0290	.0570		
.565			.0140				
.600							.0620
.650						.0550	
.700	.0220				.0320		
.725				.0080			
.750						.0550	.0680
.760			.0630				
.775				.0370	.0370		
.808			.0830				
.834	.0950						
.850				.0430	.0290	.0590	
.857			.1120				
.965	.1470						
.900	.1950			.1160			.1480
.905			.2580				
.950				.2070	.0400	.0650	
.953			.5520				

AMES 27-707 CA12 02A UPPER WING (RBQU14)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (5) = 6.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.4240						

MACH (2) = 3.503 BETA (1) = -6.670

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0670	.0730	.3770	1.1760	1.1010	1.1670	1.1800
.050				.3640	.4070	.4560	.5290
.081			.1680				
.086		.1100					
.094	.0890						
.150				.1260	.1880	.2230	.2460
.177			.0550				
.229	.0740						
.246		.0440					
.250				.0260	.0720	.1080	.1220
.362	.0470						
.400				.0010	-.0030		.0650
.402			-.0070				
.497	.0080						
.550				.0740	.0580		
.565			.0940				
.600							.1300
.650						.1530	
.700	.0980				.1390		
.725				.0860			
.750						.1730	.3000
.760			.1170				
.775				.0930	.1530		
.808			.1220				
.834	.1110						
.850				.0990	.2880	.4020	
.857			.1180				
.865	.1180						
.900	.1250			.1380			1.0320
.905			.1450				
.950				.2040	.6220	.7670	
.953			.1870				
.965	.2660						

MACH (2) = 3.503 BETA (2) = -5.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0290	.0320	.2800	.9800	.9280	.9920	.9980
.050				.2740	.3120	.3560	.4200
.081			.1170				
.086		.0650					
.094	.0530						

DATE 10 SEP 79 TABULATED PRESSURE DATA - [illegible]

AMES 87-707 CM:2 - 02A UPPER WING (F80U14)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (2) = -3.420

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.150				.0790	.1320	.1650	.1830
.177			.0250				
.229	.0320						
.246		.0150					
.250				-.0060	.0370	.0670	.0820
.352	.0210						
.400				-.0110	-.0240		.0590
.402			.0160				
.497	-.0120						
[illegible]				.0430	.0350		
.595			.0520				
.600							.1010
.650						.1020	
[illegible]	.0640				.0830		
.725				.0590			
.753						.1240	.1970
.750			.0760				
[illegible]				.0620	.0990		
.808			.0840				
.834	.0690						
.850				0080	.0300	.4270	
.857			.1010				
.855	.0780						
.900	.0810			.0870			.7340
.905			.1180				
.900				.1300	.5290	.6170	
.853			.1780				
.965	.1980						

MACH (2) = 3.503 BETA (3) = -.170

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.000	.0000	.0020	.2000	.8150	.7740	.8140	.8120
.050				.1690	.2090	.2690	.3190
.081			.0650				
.086		.0290					
.094	.0220						
.150				.0120	.0570	.1090	.1260
.177			-.0060				
.229	.0200						
.246		-.0070					
.250				-.0550	-.0260	.0290	.0420
.352	-.0020						
.400				-.0440	-.0590		.0320
.402			-.0310				
.497	-.0280						

DATE 13 SEP 77 TABULATED PRESSURE DATA - CASE 3

AMES 97-TO, OA12 OEA UPPER WING (RBGU14)

SECTION (1 UPPER WING) DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.170

X/CW \ Y/BW	.289	.364	.427	.534	.673	.780	.887
.550				-.0080	.0160		
.565			.0210				
.600							.0530
.650						.0610	
.700	.0350				.0420		
.725				.0030			
.750						.0720	.1480
.760			.0450				
.775				.0070	.0550		
.808			.0510				
.834	.0450						
.850				.0160	.1450	.2460	
.857			.0420				
.865	.0510						
.900	.0590			.0340			.5100
.905			.0670				
.950				.0580	.3600	.5480	
.953			.1280				
.965	.1810						

MACH (2) = 3.503 BETA (4) = 3.180

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.000	-.0170	-.0140	.1400	.6710	.6410	.6660	.6680
.050				.1070	.1610	.2020	.2480
.081			.0250				
.086		.0050					
.094	.0020						
.150				.0000	.0410	.0710	.0850
.177			-.0250				
.229	.0000						
.246		-.0250					
.250				-.0560	-.0280	.0030	.0150
.362	-.0190						
.400				-.0470	-.0220		.0300
.402			-.0430				
.497	-.0380						
.550				-.0030	.0500		
.565			-.0190				
.600							.0590
.650						.0600	
.700	-.0300				.0580		
.725				.0040			
.750						.0600	.0880
.760			.0080				
.775				.0070	.0590		

AMES 87-707 OA12 O2A UPPER WING (B3U14)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.100

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.800			.0150				
.834	.0420						
.850				.0020	.0590	.0000	
.857			.0030				
.865	.1280						
.900	.2030			.0150			.3550
.905			.0310				
.950				.0400	.0540	.1900	
.953			.1080				
.965	.2230						

MACH (2) = 3.503 BETA (5) = 6.520

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0300	-.0300	.0730	.5150	.5210	.5470	.5360
.050				.0510	.1010	.1420	.1770
.081			-.0060				
.086		-.0080					
.094	-.0150						
.150				-.0340	.0050	.0360	.0480
.177			-.0410				
.229	-.0170						
.246		-.0320					
.250				-.0730	-.0320	-.0120	.0020
.362	-.0280						
.400				-.0460	-.0160		.0190
.402			-.0450				
.497	-.0410						
.550				-.0210	.0220		
.565			-.0280				
.600							.0320
.650						.0300	
.700	-.0320				.0190		
.725				-.0170			
.750						.0300	.0450
.760			-.0050				
.775				-.0130	.0220		
.808			.0050				
.834	.0020						
.850				-.0180	.0150	.0240	
.857			.0050				
.865	.0500						
.900	.1400			-.0080			.2970
.905			.0400				
.950				.0080	.0160	.0620	
.953			.1330				

AMES 87-FOOT CW12 02A UPPER WING (RBQJ14)

SECTION (11 UPPER WING) DEPENDENT VARIABLE CP

MACH (21) = 3.495 BETA (5) = 6.520

Y/SW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.4740						

AMES 87-707 OA12 OBA UPPER WING (RBQU15) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = -40.000 AILERON = 40.000

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0350	-.0170	.3400	1.0520	.9610	.9920	.9620
.050				.0270	.1010	.1630	.2210
.081			-.0460				
.086		.0080					
.094	.0090						
.100				-.0960	-.0320	.0080	.0330
.177			-.0860				
.229	.0130						
.245		-.0710					
.250				-.1140	-.0840	-.0560	-.0500
.362	-.0210						
.400				-.0980	-.0700		-.0520
.402			-.0760				
.497	-.0590						
.550				-.0930	-.0410		
.565			-.0710				
.600							-.0540
.650						-.0430	
.700	-.0590				-.0280		
.725				-.0720			
.750						-.0350	-.0150
.760			-.0590				
.775				-.0630	-.0190		
.808			-.0540				
.834	-.0220						
.850				-.0450	-.0140	.0350	
.857			-.0830				
.865	.1020						
.900	.1750			.0020			.7160
.905			-.0630				
.950				.0460	.0600	.3040	
.953			-.0200				
.965	.7830						

MACH (1) = 2.498 BETA (2) = -3.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0810	-.0860	.1970	.8960	.8320	.8670	.8260
.050				-.0400	.0380	.1000	.1500
.081			-.1040				
.086		-.0450					
.094	-.0350						

AMES 87-PLT CA12 OEA UPPER WING (RBQU15)

SECTION (1) SPF. DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.340

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.150				-.1320	-.0730	-.0360	-.0100
177			-.1120				
.229	-.0370						
.245		-.0940					
.250				-.1440	-.1280	-.0850	-.0820
.362	-.0620						
.400				-.1320	-.1040		-.0810
.402			-.1400				
.497	-.0970						
.550				-.1250	-.0760		
565			-.1170				
.670							-.0840
.695						-.0740	
700	-.1050				-.0640		
.725				-.1120			
.750						-.0670	-.0550
760			-.0820				
.775				-.1040	-.0560		
808			-.0970				
.834	-.0420						
.850				-.0850	-.0520	-.0310	
.857			-.0100				
.884	.0710						
.900	.2260			-.0390			.5890
.911			-.0810				
.940				.0010	-.0100	.1600	
.951			-.0500				
.965	.6410						

MACH (1) = 2.498 BETA (3) = -.170

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.1150	-.1210	.0547	.7470	.7060	.7370	.7100
.050				-.0940	-.0260	.0430	.0690
.081			-.1470				
.086		-.0940					
.094	-.1060						
.150				-.1650	-.1130	-.0680	-.0460
.177			-.1420				
.229	-.1060						
.246		-.1230					
.250				-.1760	-.1270	-.0720	-.0610
.362	-.1060						
.400				-.1650	-.1170		-.0620
402			-.1390				
.497	-.1340						

AMES 87-707 CA12 C2A UPPER WING (FBGU15)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.496 BETA (3) = -.170

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.550				-.1630	-.0870		
.565			-.1430				
.600							-.0730
.650						-.0670	
.700	-.1480				-.0840		
.725				-.1500			
.750						-.0670	-.0680
.760			-.1100				
.775				-.1430	-.0780		
.808			-.0970				
.834	-.0710						
.850				-.1400	-.0870	-.0600	
.857			-.1120				
.865	.0490						
.900	.4710			-.1280			.1780
.905			-.0750				
.950				-.1110	-.0850	-.0180	
.952			-.0050				
.965	.5180						

MACH (1) = 2.498 BETA (4) = 3.020

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.1310	-.1390	-.0690	.5985	.7950	.6240	.5910
.050				-.1420	-.0720	-.0090	.0300
.081			-.1550				
.086		-.1240					
.094	-.1280						
.150				-.1960	-.1440	-.0980	-.0690
.177			-.1710				
.229	-.1430						
.246		-.1440					
.250				-.2000	-.1440	-.0760	-.0470
.362	-.1320						
.400				-.1980	-.1470		-.0420
.402			-.1470				
.497	-.1570						
.550				-.1990	-.1220		
.565			-.1640				
.600							-.0530
.650						-.0790	
.700	-.1620				-.1130		
.725				-.1730			
.750						-.0760	-.0560
.760			-.1230				
.775				-.1570	-.1010		

(MOD 07-7.7 DA12 024 UPPER WING (FB3018)

SECTION [illegible] DEPENDENT VARIABLE CA

MACH (1) = 2.490 BETA (4) = 3.020	Y/BW	.299	.364	.427	.534	.673	.780	.897
	X/CW							
	.809			-.1200				
	.834	-.0490						
	.850				-.1500	-.1110	-.0760	
	.857			-.1250				
	.865	.0610						
	.900	.2700			-.1290			-.0220
	.905			-.0840				
	.950				-.1010	-.1080	-.0780	
	.953			-.0590				
	.965	.2280						
MACH (1) = 2.490 BETA (5) = 6.200	Y/BW	.299	.364	.427	.534	.673	.780	.897
	X/CW							
	.000	-.1450	-.1620	-.1450	.4420	.4720	.4990	.4700
	.050				-.1510	-.1010	-.0590	-.0260
	.081			-.1580				
	.085		-.1410					
	.094	-.1500						
	.150				-.2000	-.1600	-.1150	-.0400
	.177			-.1750				
	.229	-.1530						
	.246		-.1640					
	.250				-.2000	-.1640	-.0970	-.0370
	.362	-.1540						
	.400				-.1910	-.1700		-.0430
	.402			-.1740				
	.497	-.1670						
	.550				-.1980	-.1620		
	.565			-.1540				
	.600							-.0620
	.650						-.0990	
	.700	-.1670				-.1350		
	.725				-.1770			
	.750						-.0950	-.0700
	.760			-.1520				
	.775				-.1740	-.1220		
	.808			-.1350				
	.824	-.0290						
	.850				-.1380	-.1220	-.0980	
	.857			-.0980				
	.865	.0130						
	.900	.0510			-.0850			-.0650
	.905			.1020				
	.950				-.0550	-.1110	-.1020	
	.953			.2070				

AMES 87-707 OA12 O2A UPPER WING (PB3U15)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (5) = 6.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.1080						

MACH (2) = 3.503 BETA (1) = -6.750

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0070	.0330	.4170	1.2650	1.1630	1.0350	.9360
.050				.1390	.2070	.2340	.1930
.081			.0180				
.086		.0300					
.094	.0200						
.150				-.0070	.0490	.0800	.0330
.177			-.0510				
.229	.0230						
.246		-.0290					
.250				-.0770	-.0340	.0030	.0000
.362	.0010						
.400				-.0790	-.0730		-.0120
.402			-.0440				
.497	-.0320						
.550				-.0640	-.0340		
.565			-.0250				
.600							-.0030
.650						-.0150	
.700	-.0200				-.0160		
.725				-.0400			
.750						-.0150	-.0070
.760			-.0140				
.775				-.0330	-.0110		
.808			-.0130				
.834	-.0090						
.850				-.0210	.1420	.2380	
.857			-.0450				
.865	.0600						
.900	.0890			.0140			.6340
.905			-.0310				
.950				.0610	.4020	.6070	
.953			-.0040				
.965	.5990						

MACH (2) = 3.503 BETA (2) = -3.460

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0390	-.0190	.2670	1.0730	1.0150	1.0450	.9830
.050				.0770	.1420	.2010	.2390
.081			-.0230				
.086		-.0060					
.094	-.0210						

UPPER WING (PSU151)

SECTION (1 UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.500 BETA (3) = -3.460

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.150				-.0310	.0180	.0610	.0980
.177			-.0560				
.229	-.0140						
.246		-.0450					
.250				-.0860	-.0500	-.0060	-.0010
.362	-.0290						
.400				-.0880	-.0860		-.0370
.402			-.0530				
.497	-.0490						
.550				-.0790	-.0570		
.565			-.0510				
.600							-.0330
.650						-.0410	
.700	-.0450				-.0480		
.725				-.0650			
.750						-.0400	-.0080
.760			-.0370				
.775				-.0570	-.0420		
.808			-.0320				
.834	-.0300						
.850				-.0500	.0600	.2430	
.857			-.0520				
.855	.0230						
.900	.0550			-.0210			.6160
.905			-.0420				
.950				.0220	.3560	.4910	
.953			-.0270				
.965	.4330						

MACH (2) = 3.500 BETA (3) = -.160

X/CW \ Y/BW	.299	.364	.427	.534	.673	.780	.887
.000	-.0660	-.0630	.1090	.8770	.8450	.8630	.8170
.050				.0080	.0750	.1330	.1690
.081			-.0680				
.086		-.0400					
.094	-.0550						
.150				-.0630	-.0230	.0320	.0340
.177			-.0780				
.229	-.0600						
.246		-.0630					
.250				-.1070	-.0740	-.0370	-.0260
.362	-.0590						
.400				-.1050	-.0910		-.0550
.402			-.0800				
.497	-.0750						

AMES 87-707 OA12 02A UPPER WING (BQU15)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.160

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.550				-.0960	-.0620		
.565			-.0790				
.600							-.0740
.650						-.0580	
.700	-.0790				-.0590		
.725				-.0800			
.750						-.0600	.0090
.760			-.0650				
.775				-.0770	-.0560		
.808			-.0600				
.834	-.0570						
.850				-.0740	-.0310	.0820	
.857			-.0820				
.865	-.0340						
.900	.0300			-.0650			.4530
.905			-.0[illegible]				
.950				-.0560	.0840	.3550	
.953			-.0370				
.965	.2230						

MACH (2) = 3.503 BETA (4) = 3.140

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0750	-.0650	-.0010	.6750	.6790	.7010	.6020
.030				-.0780	.0270	.0770	.1120
.061			-.0810				
.096		-.0610					
.096	-.0770						
.130				-.0920	-.0420	-.0080	.0060
.177			-.0820				
.223	-.0760						
.256		-.0710					
.350				-.1000	-.0820	-.0550	-.0440
.368	-.0720						
400				-.1000	-.0820		-.0650
.402			-.0780				
.437	-.0800						
.450				-.0990	-.0640		
.501			-.0810				
.600							-.0610
.600						-.0570	
.700	-.0[illegible]2				-.0550		
.750				-.0990			
.750						-.0590	-.0510
			-.0760				
.775				-.0[illegible]50	-.0520		

DATE 10 SEP 79 TABULATED PRESSURE DATA - CA.2C

AMES 97-7D7 CA12 CRA UPPER WING (FBSIM 5)

SECTION (1 UPPER A)

INDEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.130

Y/BW	.299	.364	.427	.534	.673	.780	.897
X/CW							
.808			-.0710				
34	-.0680						
850				-.0850	-.0450	-.0170	
.857			-.0850				
.865	-.0510						
.900	.0000			-.0810			.3640
.905			-.0860				
.930				-.0750	-.0180	.1250	
.953			-.0790				
.955	.2770						

MACH (2) = 3.503 BETA (5) = 6.430

Y/BW	.299	.364	.427	.534	.673	.780	.897
X/CW							
.000	-.0850	-.1000	-.0710	.4910	.5310	.5570	.5260
.050				-.0780	-.0250	.0250	.0550
.081			-.0930				
.086		-.0800					
.094	-.0850						
.150				-.1050	-.0740	-.0390	-.0260
.177			-.0990				
.229	-.0870						
.246		-.0930					
.250				-.1150	-.1060	-.0730	-.0630
.362	-.0940						
.400				-.1150	-.0980		-.0530
.402			-.0970				
.497	-.0950						
.550				-.1160	-.0770		
.565			-.0980				
.600							-.0530
.650						-.0640	
.700	-.0940				-.0690		
.725				-.1130			
.750						-.0610	-.0590
.760			-.0890				
.775				-.1090	-.0670		
.808			-.0860				
.834	-.0650						
.850				-.1060	-.0680	-.0510	
.857			-.0990				
.865	-.0240						
.900	.0520			-.0970			.0830
.905			-.0910				
.950				-.0860	-.0570	-.0180	
.953			-.0550				

AMES 87-707 OA12 02A UPPER WING (REGU15)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (5) = 6.430

Z/BW	.299	.364	.427	.534	.673	.780	.887	
X/CW								
.965	.0130							

AMES 87-7IN 0412 02A UPPER WING (FBGUN6) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8400 INCHES YMRP = .0000 INCHES
BREF = 39.8400 INCHES ZMRP = .0000 INCHES
SCALE = .0310 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)UPPER WING . DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -5.490

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1390	-.1350	.0690	.8900	.8760	.8720	.7650
.050				-.1060	-.0520	-.0110	.0120
.081			-.1420				
.086		-.1050					
.094	-.1210						
.150				-.1750	-.1240	-.0980	-.0860
.177			-.1580				
.229	-.1240						
.246		-.1200					
.250				-.1730	-.1450	-.1240	-.1280
.362	-.1160						
.400				-.1710	-.1370		-.1210
.402			-.1440				
.497	-.1500						
.550				-.1790	-.1240		
.565			-.1560				
.600							-.1170
.650						-.1200	
.700	-.1510				-.1140		
.725				-.1600			
.750						-.1170	-.1180
.760			-.1090				
.775				-.1500	-.1070		
.808			-.0940				
.834	-.1050						
.850				-.1460	-.1020	-.1050	
.857			-.0520				
.865	-.0540						
.900	.0560			-.1390			.3720
.905			.0090				
.950				-.1240	-.0680	.0980	
.953			.0260				
.965	.1980						

MACH (1) = 2.495 BETA (2) = -3.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1710	-.1660	-.0180	.7150	.7240	.7240	.6210
.050				-.1420	-.0970	-.0570	-.0430
.081			-.1670				
.086		-.1380					
.094	-.1570						

AMES 87-707 OA12 O2A UPPER WING (RBQU16)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1940	-.1520	-.1260	-.1160
.177			-.1790				
.229	-.1540						
.246		-.1550					
.250				-.1960	-.1770	-.1520	-.1530
.362	-.1610						
.400				-.1910	-.1660		-.1470
.402			-.1700				
.497	-.1630						
.550				-.1990	-.1520		
.565			-.1760				
.600							-.1460
.650						-.1470	
.700	-.1810				-.1450		
.725				-.1900			
.750						-.1430	-.1420
.760			-.1360				
.775				-.1830	-.1410		
.808			-.1220				
.834	-.1420						
.850				-.1750	-.1380	-.1350	
.857			-.0930				
.865	-.1160						
.900	-.0930			-.1590			.3080
.905			-.0720				
.950				-.1310	-.1170	-.0220	
.953			-.0210				
.965	.0030						

MACH (1) = 2.498 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1950	-.1950	-.0960	.5420	.5740	.5760	.4860
.050				-.1810	-.1480	-.0980	-.0840
.081			-.1840				
.086		-.1630					
.094	-.1760						
.150				-.2090	-.1860	-.1490	-.1390
.177			-.1860				
.229	-.1760						
.246		-.1780					
.250				-.2100	-.2080	-.1760	-.1730
.362	-.1760						
.400				-.2140	-.1990		-.1720
.402			-.1730				
.497	-.1770						



DATE 17 SEP 73 TABULATED PRESSURE DATA - CW120

AMES 07-707 0412 CRA UPPER WING (ABOVE)

SECTION (UPPER WING) DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2120	-.1720		
.565			-.1840				-.1710
.600						-.1710	
.650					-.1660		
.700	-.1820			-.2110			
.725						-.1680	-.1610
.750							
.760			-.1780				
.775				-.2060	-.1620		
.808			-.1750				
.834	-.1710						
.850				-.2070	-.1620	-.1620	
.857			-.1930				
.865	-.1480						
.900	-.0790			-.2020			.2070
.905			-.1770				
.950				-.1900	-.1460	-.0490	
.953			-.1040				
.965	-.0780						

MACH (1) = 2.498 BETA (4) = 3.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1930	-.2000	-.1350	.3940	.4560	.4450	.3680
.050				-.2110	-.1840	-.1350	-.1270
.081			-.1960				
.086		-.1850					
.094	-.1810						
.150				-.2330	-.2150	-.1710	-.1630
.177			-.2010				
.229	-.1910						
.246		-.1940					
.250				-.2360	-.2300	-.1910	-.1880
.362	-.1860						
.400				-.2340	-.2230		-.1850
.402			-.1930				
497	-.1960						
.550				-.2390	-.1980		
.565			-.1910				
.600							-.1850
.650						-.1870	
.700	-.1930				-.1830		
.725				-.2330			
750						-.1830	-.1800
.760			-.1840				
775				-.2300	-.1800		

/MES 87-70 2412 20A UPPER WING /PRESURE/

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1810				
.834	-.1770						
.850				-.2270	-.1760	-.1620	
.857			-.1940				
.865	-.1730						
.901	-.1660			-.2190			.1520
.905			-.1540				
.950				-.2010	-.1680	-.1270	
.953			-.1510				
.965	-.1580						

MACH (1) = 2.498 BETA (5) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2070	-.2160	-.1750	.2523	.3170	.3050	.2350
.050				-.2150	-.1970	-.1660	-.1550
.081			-.2000				
.086		-.1990					
.094	-.1990						
.150				-.2350	-.2200	-.1910	-.1800
.177			-.2090				
.229	-.1990						
.246		-.2050					
.250				-.2350	-.2280	-.1690	-.1710
.362	-.2030						
.400				-.2310	-.2260		-.1680
.402			-.2010				
.497	-.2030						
.550				-.2310	-.2000		
.565			-.1950				
.600							-.1660
.650						-.1830	
.700	-.1970				-.1970		
.725				-.2190			
.750						-.1810	-.1700
.760			-.1730				
.775				-.2090	-.1950		
.808			-.1690				
.834	-.1890						
.850				-.1850	-.1930	-.1800	
.857			-.1820				
.865	-.1840						
.900	-.1840			-.1760			-.1620
.905			-.1690				
.950				-.1750	-.1830	-.1710	
.957			-.1400				

AMCS 87-707 OA12 02A UPPER WING (RBQU16)

SECTION (1 STEP 0.0) DEPENDENT VARIABLE CP

MACH (1) = 2.498 RE x (5) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.1830						

MACH (2) = 3.503 BETA (1) = -6.720

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0530	-.0360	.2130	1.2620	1.0390	.8570	.7730
.050				.0250	.0760	.0470	.0450
.081			-.0730				
.086		-.0350					
.094	-.0470						
.150				-.0510	-.0170	-.0010	-.0360
.177			-.0780				
.229	-.0510						
.246		-.0520					
.250				-.0940	-.0690	-.0360	-.0430
.362	-.0540						
.400				-.0890	-.0720		-.0420
.402			-.0690				
.497	-.0710						
.550				-.0860	-.0580		
.565			-.0730				
.600							-.0530
.650						-.0500	
.700	-.0780				-.0550		
.725				-.0710			
.750						-.0540	-.0540
.760			-.0610				
.775				-.0640	-.0520		
.808			-.0540				
.834	-.0590						
.850				-.0610	-.0120	-.0160	
.857			-.0480				
.865	-.0390						
.900	.0310			-.0500			.0140
.905			-.0230				
.950				-.0340	.0860	.3370	
.953			.0080				
.965	.1460						

MACH (2) = 3.503 BETA (2) = -3.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0800	-.0720	.0950	1.0500	1.0220	.7900	.6650
.050				-.0170	.0510	.0760	.0350
.081			-.0870				
.086		-.0640					
.094	-.0660						

AMES 87-707 OA12 OBA UPPER WING (RB0U16)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (2) = -3.440

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0690	-.0290	-.0100	-.0370
.177			-.0860				
.229	-.0750						
.246		-.0770					
.250				-.1020	-.0750	-.0540	-.0610
.362	-.0770						
.400				-.1040	-.1010		-.0690
.402			-.0810				
.497	-.0860						
.550				-.1010	-.0980		
.565			-.0860				
.600							-.0670
.650						-.0780	
.700	-.0960				-.0850		
.725				-.0950			
.750						-.0850	-.0540
.760			-.0790				
.775				-.0920	-.0850		
.808			-.0770				
.834	-.0730						
.850				-.0910	-.0550	.2240	
.857			-.0870				
.865	-.0630						
.900	-.0310			-.0810			.3940
.905			-.0860				
.950				-.0660	.1700	.2920	
.953			-.0810				
.965	.0510						

MACH (2) = 3.503 BETA (3) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0850	-.0840	.0210	.8410	.8610	.8640	.6040
.050				-.0550	-.0010	.0530	.0620
.081			-.1020				
.086		-.0880					
.094	-.0890						
.150				-.0950	-.0580	-.0230	-.0220
.177			-.1020				
.229	-.0940						
.246		-.0960					
.250				-.1110	-.0940	-.0650	-.0600
.362	-.0950						
.400				-.1140	-.1130		-.0790
.402			-.1000				
.497	-.1000						

AMES 12-FOOT SWEPT UPPER WING (POSITIVE)

SECTION (1) TYPE 1 DEPENDENT VARIABLE CP

MACH (2) = 3.503 BL (3) = -.160	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.550				-.1150	-.0960		
	.585			-.1000				
	.600							-.0840
	.650						-.0890	
	.700	-.0990				-.0960		
	.725				-.1100			
	.750						- 950	.0410
	.760			-.0960				
	.775				-.1070	-.0980		
	.809			-.0950				
	.834	-.0930						
	.850				-.1060	-.0880	.0050	
	.857			-.0970				
	.865	-.0840						
	.900	-.0560			-.1010			.3080
	.905			-.1020				
	.950				-.0920	.1420	.1970	
	.953			-.0810				
	.985	-.0540						

MACH (2) = 3.503 BETA (4) = 3.150	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.0990	-.1040	-.0430	.6510	.6710	.6800	.6080
	.050				-.0880	-.0470	.0070	.0270
	.091			-.1080				
	.096		-.0990					
	.094	-.0920						
	.150				-.1160	-.0830	-.0520	-.0410
	.177			-.1060				
	.229	-.1000						
	.246		-.1070					
	.250				-.1240	-.1110	-.0830	-.0740
	.362	-.1040						
	.400				-.1270	-.1230		-.0910
	.402			-.1040				
	.497	-.1070						
	.550				-.1250	-.1050		
	.565			-.1050				
	.600							-.0910
	.650						-.0990	
	.700	-.1050				-.1070		
	.725				-.1220			
	.750						-.1030	-.0760
	.760			-.1040				
	.775				-.1210	-.1070		

AMES 87-707 OA12 02A UPPER WING (SP3U16)

SECTION (1)(UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.500 BETA (4) = 3.150

X/SW / X/CW	.299	.364	.427	.534	.673	.780	.887
.808			-.1130				
.834	-.1010						
.850				-.1180	-.1000	.0050	
.857			-.1050				
.865	-.0980						
.900	-.0900			-.1170			.1910
.905			-.1000				
.950				-.1120	.0560	.1140	
.953			-.1000				
.965	-.0810						

MACH (2) = 3.500 BETA (5) = 6.470

X/SW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0950	-.1020	-.0690	.4850	.5140	.5230	.4650
.050				-.1240	-.0930	-.0360	-.0080
.081			-.1060				
.086		-.1050					
.094	-.1000						
.150				-.1400	-.1160	-.0730	-.0630
.177			-.1040				
.223	-.1050						
.245		-.1060					
.250				-.1450	-.1350	-.0950	-.0880
.362	-.1040						
.400				-.1430	-.1430		-.1010
.402			-.1040				
.497	-.1030						
.550				-.1430	-.1050		
.565			-.1050				
.600							-.1010
.650						-.1060	
.700	-.1050				-.1070		
.725				-.1400			
.750						-.1110	-.0870
.760			-.1020				
.775				-.1470	-.1100		
.808			-.1010				
.834	-.1010						
.850				-.1400	-.1080	-.0760	
.857			-.1160				
.865	-.0980						
.900	-.0900			-.1390			.1060
.905			-.1300				
.950				-.1400	-.0970	.0630	
.953			-.1320				

(RB3016)

DEPENDENT VARIABLE CF

X/CM	.299	.564	.429	.734	.673	.780	.867
Y/CM							
CF	-.039						

DATE 13 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A UPPER WING (R13.17) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000
ELEVON = .000 AILERON = .000

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = 16.200

Y/BW	.299	.364	.427	.534	.673	.780	.867
X/CW							
.000	-.1590	-.1560	-.0490	.6670	.6660	.5810	.6210
.050				-.1450	-.0880	-.0340	-.0060
.081			-.1660				
.086		-.1440					
.094	-.1510						
.150				-.1940	-.1450	-.1100	-.0980
.177			-.1770				
.229	-.1470						
.246		-.1560					
.250				-.2150	-.1950	-.1550	-.1420
.352	-.1480						
.400				-.2180	-.2110		-.1670
.402			-.1950				
.497	-.1740						
.550				-.2150	-.2050		
.565			-.2030				
.600							-.1910
.650						-.1950	
.700	-.1960				-.2020		
.725				-.2180			
.750						-.2000	-.2020
.760			-.2000				
.775				-.2180	-.2030		
.803			-.2000				
.834	-.2000						
.850				-.2180	-.2000	-.2010	
.857			-.2070				
.865	-.1950						
.900	-.1830			-.2150			-.1980
.905			-.2010				
.950				-.2040	-.1970	-.1970	
.953			-.1900				
.965	-.1480						

MACH (1) = 2.498 ALPHA (2) = 20.250

Y/BW	.299	.364	.427	.534	.673	.780	.867
X/CW							
.000	-.1630	-.1670	-.0850	.6700	.5900	.5980	.6760
.050				-.1780	-.1760	-.0890	-.0330
.081			-.1840				
.086		-.1660					
.094	-.1750						

[illegible] TABULATED AERODYNAMIC DATA - CASE 1

[illegible] BODY WINGS [illegible]

[illegible] CONSTANT VARIABLE CP

SECTION [illegible] CP

MACH (1) = 2.490 ALPHA (2) = 20.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2110	-.1740	-.1480	-.1360
.177			-.1910				
.229	-.1760						
.246		-.1810					
.250				-.2190	-.2040	-.1800	-.1720
.362	-.1790						
.400				-.2200	-.2190		-.1810
.402			-.1990				
.497	-.1920						
.550				-.2170	-.2010		
.563			-.2000				
.600							-.1940
.650						-.1940	
.700	-.2030				-.2010		
.725				-.2170			
.750						-.1950	-.1920
.760			-.1960				
.775				-.2170	-.2010		
.808			-.1960				
.834	-.1950						
.850				-.2160	-.2000	-.1960	
.857			-.2010				
.865	-.1840						
.900	-.1760			-.2150			-.1960
.905			-.2050				
.950				-.2110	-.1950	-.1950	
.953			-.1990				
.965	-.1480						

MACH (1) = 2.490 ALPHA (3) = 25.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1870	-.1920	-.0990	.4700	.5170	.4780	.3720
.050				-.1960	-.1700	-.1460	-.1530
.081			-.1930				
.086		-.1830					
.094	-.1800						
.150				-.2190	-.1940	-.1760	-.1760
.177			-.2010				
.229	-.1690						
.246		-.1920					
.250				-.2240	-.2160	-.1970	-.1940
.362	-.1840						
.400				-.2240	-.2230		-.2020
.402			-.2040				
.497	-.1980						

AMES 87-707 CA12 C2A UPPER WING (SEQU17)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.493 ALPHA (3) = 25.180

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.550				-.2210	-.2050		
.565			-.2070				
.600							-.2030
.650						-.2030	
.700	-.2080				-.2060		
.725				-.2210			
.750						-.2030	-.1940
.760			-.2010				
.775				-.2210	-.2060		
.808			-.1990				
.834	-.2010						
.850				-.2220	-.2050	-.2030	
.857			-.1960				
.865	-.1870						
.900	-.1860			-.2210			-.2020
.905			-.2060				
.950				-.2170	-.2030	-.2030	
.953			-.2010				
.965	-.1670						

MACH (1) = 2.493 ALPHA (4) = 30.150

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.1920	-.1910	-.1070	.3790	.4230	.3540	.2260
.050				-.2050	-.1930	-.1780	-.1870
.081			-.2120				
.086		-.2030					
.094	-.1950						
.150				-.2100	-.2030	-.1950	-.1960
.177			-.2070				
.229	-.2070						
.246		-.2080					
.250				-.2170	-.2197	-.2050	-.2030
.362	-.2050						
.400				-.2100	-.2160		-.1960
.402			-.2030				
.497	-.1990						
.550				-.2060	-.1970		
.565			-.1970				
.600							-.1960
.650						-.1990	
.700	-.1970				-.1940		
.725				-.2050			
.750						-.1950	-.1890
.760			-.1980				
.775				-.2060	-.1980		

TABULATED PRESSURE DATA - DA12C

UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (4) = 30.150

Y/BW	.239	.354	.427	.534	.673	.780	.887
X/CW							
.808			-.1940				
.834	-.1960						
.850				-.2070	-.1990	-.1940	
.857			-.1950				
.865	-.1970						
.900	-.1960			-.2040			-.1890
.905			-.1980				
.950				-.2040	-.1970	-.1920	
.953			-.1960				
.965	-.1980						

MACH (1) = 2.438 ALPHA (5) = 35.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.6630	.7950	1.4630	1.4970	1.3540	1.1360	1.3010
.050				.7260	.7300	.7530	.7470
.081			.7480				
.086		.7500					
.094	.7360						
.150				.7250	.7370	.7570	.7490
.177			.7530				
.229	.7450						
.246		.7500					
.250				.7290	.7370	.7473	.7480
.362	.7490						
.400				.7290	.9120		.7450
.402			.7560				
.497	.7540						
.550				.7300	.7440		
.565			.7610				
.600							.9310
.650						.7450	
.700	.7580				.7450		
.725				.7350			
.750						.7410	.7470
.760			.7600				
.775				.7370	.7430		
.808			.9330				
.834	.7560						
.850				.7380	.7440	.7450	
.857			.7450				
.865	.7580						
.900	.7600			.7390			.8090
.905			.7480				
.950				.7340	.7490	.7360	
.953			.7260				

AMES 67-707 OA12 02A UPPER WING (T30L17)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (5) = 35.290

Y/BW	.299	.354	.427	.534	.673	.780	.887
X/CW							
.966	.7410						

MACH (1) = 2.498 ALPHA (6) = 38.670

Y/BW	.299	.354	.427	.534	.673	.780	.887
X/C							
.000	-.1960	-.1900	-.1170	.2170	.2160	.1350	.0150
.041				-.2220	-.2250	-.2120	-.2180
.075			-.1900				
.109		-.1970					
.134	-.1980						
.181				-.2250	-.2210	-.2060	-.2170
.177			-.1930				
.229	-.2060						
.246		-.1970					
.350				-.2190	-.2190	-.2070	-.2060
.392	-.2000						
.430				-.2201	-.2190		-.2090
.461			-.1960				
.491	-.1970						
.519				-.2190	-.2050		
.566			-.1990				
.611							-.2090
.651						-.2080	
.730	-.1970				-.2070		
.750				-.2180			
.791						-.2090	-.2000
.760			-.1960				
.775				-.2190	-.2090		
.800			-.1980				
.834	-.2000						
.850				-.2160	-.2190	-.2070	
.857			-.2060				
.885	-.1980						
.900	-.1930			-.2180			-.2060
.905			-.2120				
.950				-.2160	-.2080	-.2080	
.953			-.2120				
.963	-.1990						

MACH (2) = 3.501 ALPHA (1) = 15.160

Y/BW	.299	.354	.427	.534	.673	.780	.887
X/CW							
.000	-.0850	-.0850	.0440	.0760	.0670	.0790	.1070
.030				-.0330	.0470	.0900	.1140
.181			-.0940				
.085		-.0790					
.094	-.0850						

AMES 67-70? CA12 CRA UPPER WING (PB0017)

SECTION ([illegible] DEPENDENT VARIABLE CP

MACH (2) = 3.[illegible] AL[illegible] (1) = 15.16[illegible]	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.150				-.0900	- [illegible]80	- 0020	.0090
	.177			-.0980				
	.229	-.0830						
	.246		-.0830					
	.250				-.1150	-.0850	-.0540	-.0430
	.362	-.0830						
	.400				-.1230	-.1110		-.0930
	.402			-.1040				
	.497	-.0910						
	.550				-.1240	-.1090		
	.565			-.1040				
	.600							-.0930
	.650						-.0950	
	.700	-.1010				-.1070		
	.725				-.1230			
	.750						-.1030	-.0980
	.760			-.1030				
	.775				-.1230	-.1060		
	.808			-.1030				
	.834	-.1010						
	.850				-.1210	-.1050	-.1050	
	.857			-.1090				
	.865	-.1000						
	.900	-.1010			-.1220			-.0980
	.905			-.1090				
	.950				-.1180	-.1050	-.1030	
	.953			-.1130				
	.965	-.0870						

MACH (2) = 3.501 ALPHA (2) = 20.230	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.0860	-.0850	.0240	.8480	.8660	.8720	.5930
	.050				-.0590	-.0020	.0460	.0490
	.081			-.1010				
	.085		-.0910					
	.094	-.0810						
	.150				-.0990	-.0590	-.0260	-.0240
	.177			-.1000				
	.229	-.0890						
	.245		-.0940					
	.250				-.1190	-.0940	-.0680	-.0630
	.362	-.0930						
	.400				-.1210	-.1140		-.0840
	.402			-.1020				
	.497	-.0980						

AMES 87-707 OA12 02A UPPER WING (W33U17)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (2) = 20.230

Y/BW / X/CW	.299	.364	.427	.534	.673	.760	.887
.550				-.1210	-.1080		
.565			-.1040				
.600							-.1000
.650						-.1000	
.700	-.1020				-.1080		
.725				-.1210			
.750						-.1070	-.0990
.760			-.1030				
.775				-.1210	-.1070		
.808			-.1020				
.834	-.1040						
.850				-.1210	-.1070	-.1070	
.857			-.1120				
.865	-.0980						
.900	-.0990			-.1220			-.1020
.905			-.1150				
.950				-.1190	-.1060	-.1080	
.953			-.1150				
.965	-.0870						

MACH (2) = 3.501 ALPHA (3) = 25.240

Y/BW / X/CW	.299	.354	.427	.534	.673	.760	.887
.000	-.0930	-.0880	.0090	.7850	.8010	.7660	.4370
.050				-.0850	-.0470	-.0040	-.0190
.081			-.1200				
.086		-.1120					
.094	-.1090						
.150				-.1150	-.0980	-.0520	-.0520
.177			-.1210				
.229	-.1100						
.246		-.1170					
.250				-.1310	-.1140	-.0830	-.0850
.362	-.1130						
.400				-.1330	-.1290		-.0940
.402			-.1190				
.497	-.1180						
.550				-.1330	-.1050		
.565			-.1200				
.600							-.1060
.650						-.1020	
.700	-.1210				-.1070		
.725				-.1340			
.750						-.1060	-.0990
.760			-.1200				
.775				-.1320	-.1060		

[illegible] SEP 79 CALCULATED PRESSURE DATA - CA12C

[illegible] CA12 02A UPPER WING (RB90U17)

SECTION [illegible] DEPENDENT VARIABLE CP

MACH (2) = 3.[illegible] ALPHA (3) = 25.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1190				
.834	-.1190						
.850				-.1320	-.1070	-.1080	
.857			-.1200				
.865	-.1150						
.900	-.1130			-.1310			-.1040
.905			-.1270				
.950				-.1290	-.1050	-.1080	
.953			-.1230				
.965	-.1080						

MACH (2) = 3.[illegible] ALPHA (4) = 30.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0930	-.0900	.0010	.6710	.6930	.6320	.3230
.050				-.0950	-.0690	-.0500	-.0730
.081			-.1090				
.086		-.1030					
.094	-.1000						
.150				-.1160	-.0960	-.0770	-.0820
.177			-.1070				
.229	-.1000						
.246		-.1060					
.250				-.1240	-.1170	-.0960	-.0990
.362	-.1010						
.400				-.1240	-.1250		-.1060
.482			-.1040				
.497	-.1070						
.550				-.1240	-.1060		
.565			-.1040				
.600							-.1100
.650						-.1050	
.700	-.1050				-.1060		
.725				-.1250			
.750						-.1080	-.0980
.760			-.1040				
.775				-.1230	-.1080		
.808			-.1030				
.834	-.1040						
.850				-.1210	-.1070	-.1100	
.857			-.1100				
.865	-.1030						
.900	-.1010			-.1190			-.1060
.905			-.1180				
.950				-.1190	-.1070	-.1070	
.953			-.1200				

AMES 87-707 OA12 02A UPPER WING (030U17)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (4) = 30.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.1000						

MACH (2) = 3.501 ALPHA (5) = 35.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0930	-.0890	-.0050	.5460	.5670	.4690	.2160
.050				-.1050	-.0940	-.0800	-.1120
.091			-.1160				
.086		-.1130					
.094	-.1060						
.150				-.1200	-.1060	-.0960	-.1070
.177			-.1120				
.229	-.1110						
.246		-.1140					
.250				-.1210	-.1200	-.1060	-.1100
.362	-.1110						
.400				-.1240	-.1220		-.1120
.402			-.1110				
.497	-.1100						
.550				-.1210	-.1050		
.565			-.1110				
.600							-.1100
.650						-.1100	
.700	-.1100				-.1080		
.725				-.1220			
.750						-.1080	-.0990
.760			-.1100				
.775				-.1200	-.1030		
.808			-.1100				
.834	-.1110						
.850				-.1210	-.1060	-.1080	
.857			-.1040				
.855	-.1110						
.900	-.1110			-.1240			-.1070
.905			-.1100				
.950				-.1240	-.1080	-.1080	
.953			-.1200				
.965	-.1100						

MACH (2) = 3.501 ALPHA (6) = 38.630

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0940	-.0850	-.0050	.4670	.4760	.3610	.1490
.050				-.1160	-.1090	-.1010	-.1170
.091			-.1170				
.086		-.1170					
.094	-.1180						

AMES 9-FOOT OA12 OA2A UPPER WING (RUN 17)

SECTION 1 OF 2 DEPENDENT VARIABLE CP

MACH (2) = .701 ALPHA (6) = 38.630

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1230	-.1200	-.1080	-.1160
.177			-.1170				
.229	-.1200						
.246		-.1190					
.250				-.1250	-.1300	-.1140	-.1160
.362	-.1190						
.400				-.1250	-.1260		-.1160
.402			-.1190				
.497	-.1160						
.550				-.1250	-.1090		
.565			-.1170				
.600							-.1150
.650						-.1150	
.700	-.1170				-.1120		
.725				-.1270			
.750						-.1140	-.1040
.730			-.1180				
.775				-.1250	-.1140		
.808			-.1190				
.834	-.1200						
.850				-.1250	-.1140	-.1140	
.887			-.1070				
.865	-.1190						
.900	-.1190			-.1260			-.1110
.901			-.1220				
.950				-.1260	-.1130	-.1130	
.953			-.1240				
.965	-.1170						

DATE 10 SEP 75 TABULATED PRESSURE DATA - OA12C PAGE 034

AMES 97-707 OA12 OEA UPPER WING (REQUIR. 16 MAY 73)

REFERENCE DATA

SREF = 2.4910 SQ.FT. LREF = 32.3000 INCHES
LATT = 3.1490 INCHES HMCR = .0000 INCHES
BTOT = 30.0610 INCHES ZMCR = .0000 INCHES
XCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = .000 AUXFLR = 40.000

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

Y/BW	.290	.364	.427	.534	.675	.780	.887
X/CW							
.000	-.1680	-.1840	-.0150	.6460	.6700	.5820	.4200
.050				-.1780	-.1520	-.1360	-.1580
.081			-.1780				
.086		-.1650					
.094	-.1640						
.150				-.2090	-.1830	-.1700	-.1790
.177			-.1890				
.226	-.1690						
.248		-.1710					
.250				-.2120	-.2130	-.1910	-.1970
.362	-.1710						
.400				-.2090	-.2080		-.1900
.402			-.1950				
.497	-.1840						
.550				-.2070	-.1940		
.565			-.1960				
.600							-.1860
.650						-.1910	
.700	-.2010				-.1940		
.725				-.2090			
.750						-.1910	-.1870
.760			-.1900				
.775				-.2090	-.1940		
.808			-.1870				
.834	-.1690						
.850				-.2080	-.1930	-.1910	
.857			-.1980				
.865	-.1750						
.900	-.1710			-.2070			-.1930
.905			-.1950				
.950				-.2030	-.1910	-.1890	
.953			-.1650				
.965	-.1440						

MACH (1) = 2.498 BETA (2) = -3.310

Y/BW	.299	.364	.427	.534	.675	.780	.887
X/CW							
.000	-.1830	-.1770	-.0630	.5020	.5470	.4540	.3190
.050				-.1970	-.1780	-.1690	-.1750
.081			-.2040				
.086		-.1850					
.094	-.1940						

AMES 87-707 OA12 02A UPPER WING (RBQU18)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.310

Y/BW	.299	.354	.427	.534	.673	.780	.887
X/CW							
.150				-.2170	-.2030	-.1830	-.1690
.177			-.2130				
.229	-.1960						
.246		-.1980					
.250				-.2160	-.2190	-.2000	-.2020
.362	-.1960						
.400				-.2170	-.2170		-.1970
.402			-.2120				
.497	-.2070						
.550				-.2160	-.2000		
.565			-.2090				
.600							-.1950
.650						-.1970	
.700	-.2120				-.2000		
.725				-.2160			
.750						-.1990	-.1940
.760			-.2070				
.775				-.2160	-.2010		
.808			-.2070				
.934	-.2080						
.950				-.2160	-.2020	-.2010	
.957			-.2010				
.965	-.1980						
.900	-.1980			-.2130			-.1990
.905			-.2090				
.950				-.2120	-.2010	-.1990	
.953			-.2030				
.965	-.1830						

MACH (1) = 2.438 BETA (3) = -.130

Y/BW	.299	.354	.427	.534	.673	.780	.887
X/CW							
.000	-.1910	-.1910	-.1980	.3730	.4200	.3500	.2250
.050				-.2080	-.1970	-.1800	-.1910
.081			-.2020				
.086		-.1960					
.094	-.1970						
.150				-.2130	-.2150	-.1960	-.2040
.177			-.2000				
.229	-.2000						
.246		-.2000					
.250				-.2130	-.2220	-.2060	-.2050
.362	-.1990						
.400				-.2150	-.2200		-.2000
.402			-.1970				
.497	-.1990						

TABULATED PRESSURE DATA - CW12C

AMES 97-707 OA12 OBA UPPER WING

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (3) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2080	-.2000		
.565			-.1920				
.620							-.1980
.650						-.2000	
.700	-.1960				-.1960		
.725				-.2070			
.750						-.1990	-.1930
.760			-.1900				
.775				-.2100	-.1980		
.805			-.1870				
.834	-.1920						
.850				-.2110	-.2010	-.1970	
.857			-.2010				
.865	-.1870						
.900	-.1900			-.2110			-.1900
.905			-.2020				
.950				-.2100	-.1990	-.1940	
.953			-.2000				
.985	-.1890						

MACH (1) = 2.499 BETA (4) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2050	-.2050	-.147	.2550	.3030	.2380	.1360
.050				-.2250	-.2140	-.2030	-.2100
.081			-.2150				
.085		-.2130					
.094	-.2100						
.150				-.2210	-.2170	-.2040	-.2100
.177			-.2050				
.229	-.2150						
.245		-.2090					
.250				-.2200	-.2160	-.2030	-.2070
.362	-.2090						
.400				-.2200	-.2160		-.2050
.402			-.2040				
.497	-.2090						
.550				-.2200	-.2050		
.565			-.2040				
.600							-.2070
.650						-.2080	
.700	-.2010				-.2100		
.725				-.2200			
.750						-.2100	-.2070
.760			-.2000				
.775				-.2220	-.2100		

AMES 87-757 OA12 02A UPPER WING (RBQU18)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.080

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.808			-.2000				
.834	-.2000						
.850				-.2180	-.2100	-.2100	
.857			-.2080				
.865	-.2010						
.900	-.2020			-.2170			-.2110
.905			-.2140				
.950				-.2140	-.2100	-.2110	
.953			-.2160				
.965	-.2020						

MACH (1) = 2.498 BETA (8) = 6.240

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.2010	-.2030	-.1600	.1640	.1990	.1460	.0550
.050				-.2250	-.2270	-.2040	-.2060
.081			-.1940				
.086		-.1920					
.094	-.1820						
.150				-.2270	-.2200	-.1970	-.2020
.177			-.1920				
.229	-.1870						
.246		-.1920					
.250				-.2250	-.2170	-.1960	-.2000
.362	-.1890						
.400				-.2250	-.2190		-.2010
.402			-.1930				
.497	-.1910						
.550				-.2240	-.1980		
565			-.1930				
.600							-.2010
.650						-.2010	
.700	-.1940				-.2000		
.725				-.2220			
.750						-.2020	-.1970
.760			-.1900				
.775				-.2190	-.2000		
.808			-.1870				
.834	-.1920						
.850				-.2170	-.2030	-.2010	
.857			-.2030				
.865	-.1910						
.900	-.1900			-.2180			-.1990
.905			-.2140				
.950				-.2180	-.2020	-.2000	
.953			-.2170				

AMES 87-707 GA12 OPA UPPER WING (P.3018)

SECTION 1 (UPPER WING) DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (5) = 5.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.1920						

MACH (2) = 3.501 BETA (1) = -6.700

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0750	-.0590	.1080	.7920	.9070	.5460	.4240
.050				-.0550	-.0370	-.0380	-.0770
.081			-.1030				
.086		-.0870					
.094	-.0920						
.150				-.0980	-.0760	-.0510	-.0910
.177			-.1070				
.229	-.0920						
.246		-.0940					
.250				-.1170	-.1040	-.0750	-.1030
.362	-.0950						
.400				-.1160	-.1150		-.1060
.402			-.1110				
.497	-.1040						
.550				-.1170	-.1000		
.565			-.1110				
.600							-.1090
.650						-.0940	
.700	-.1100				-.1010		
.725				-.1170			
.750						-.1020	-.0990
.760			-.1090				
.775				-.1180	-.1030		
.801			-.1060				
.834	-.1120						
.850				-.1170	-.1030	-.1030	
.897			-.0980				
.865	-.1030						
.900	-.1010			-.1160			-.1050
.915			-.1070				
.950				-.1130	-.1000	-.1050	
.555			-.1050				
.955	-.0870						

MACH (2) = 3.501 BETA (2) = -3.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0840	-.0740	.0490	.3405	.6260	.5910	.3410
.050				-.0700	-.0460	-.0410	-.0850
.081			-.1020				
.086		-.1070					
.09	-.0870						

MEC 67-70° CA12 J2A UPPER WING (PB6.18)

SECTION 1 (UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1090	-.0790	-.0710	-.0910
.177			-.1050				
.229	-.0940						
.246		-.0970					
.250				-.1210	-.1070	-.0940	-.0960
.362	-.0960						
.400				-.1230	-.1220		-.1000
.402			-.1020				
.497	-.1020						
.550				-.1210	-.1040		
.565			-.1020				
.600							-.1090
.650						-.1020	
.700	-.1020				-.1060		
.725				-.1210			
.750						-.1040	-.1000
.760			-.1020				
.775				-.1210	-.1050		
.800			-.1020				
.824	-.1030						
.850				-.1220	-.1060	-.1040	
.857			-.1020				
.865	-.0990						
.900	-.0980			-.1230			-.1100
.905			-.1150				
.950				-.1180	-.1047	-.1040	
.953			-.1140				
.965	-.0930						

MACH (2) = 3.501 BETA (3) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0900	-.0860	.0000	.6700	.6950	.6335	.3390
.050				-.0930	-.0870	-.0900	-.0700
.081			-.1120				
.096		-.1050					
.094	-.0990						
.150				-.1130	-.0930	-.0750	-.0910
.177			-.1120				
.229	-.1070						
.246		-.1090					
.250				-.1200	-.1120	-.0940	-.0960
.362	-.1070						
.400				-.1200	-.1220		-.1030
.402			-.1090				
.497	-.1110						

AMES 67-707 OA12 OEA UPPER WING (BOEU18)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.130

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.550				-.1210	-.1040		
.565			-.1090				
.600							-.1080
.650						-.1030	
.700	-.1100				-.1060		
.725				-.1200			
.750						-.1080	-.0990
.760			-.1080				
.775				-.1210	-.1050		
.806			-.1080				
.834	-.1100						
.850				-.1200	-.1060	-.1080	
.857			-.1080				
.865	-.1090						
.900	-.1070			-.1180			-.1080
.905			-.1150				
.950				-.1150	-.1070	-.1070	
.953			-.1160				
.985	-.1060						

MACH (2) = 3.501 BETA (4) = 3.170

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0970	-.0950	-.0320	.5080	.5640	.5030	.3520
.050				-.1060	-.0870	-.0690	-.0800
.081			-.1070				
.086		-.1020					
.094	-.1030						
.150				-.1190	-.1070	-.0860	-.0900
.177			-.1050				
.229	-.1050						
.246		-.1040					
.250				-.1210	-.1200	-.1010	-.1090
.382	-.1040						
.400				-.1210	-.1230		-.1080
.402			-.1040				
.497	-.1030						
.550				-.1220	-.1040		
.565			-.1030				
.600							-.1100
.650						-.1060	
.700	-.0980				-.1080		
.725				-.1220			
.750						-.1090	-.1000
.760			-.1020				
.775				-.1220	-.1090		

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AMES 87-76T OA12 O2A UPPER WING (RBQ118)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.608			-.1180				
.634	-.1020			-.1210	-.1100	-.1110	
.850							
.857			-.1110				
.865	-.1040			-.1200			-.1080
.900	-.1030						
.905			-.1180				
.950				-.1230	-.1090	-.1110	
.953			-.1210				
.955	-.1010						

MACH (2) = 3.501 BETA (5) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1010	-.1020	-.1600	.3640	.4150	.3790	.2870
.050				-.1190	-.1040	-.0880	-.0950
.081			-.1050				
.085		-.1070					
.094	-.1030			-.1270	-.1180	-.1020	-.1020
.150							
.177			-.1040				
.229	-.1020						
.245		-.1040					
.250				-.1260	-.1220	-.1120	-.1060
.262	-.1020						
.400				-.1250	-.1220		-.1120
.402			-.1070				
.497	-.1030						
.550				-.1250	-.1100		
.555			-.1060				
.600							-.1130
.650						-.1120	
.700	-.1040				-.1110		
.725				-.1250			
.750						-.1120	-.1030
.760			-.1050				
.775				-.1270	-.1120		
.808			-.1060				
.834	-.1040						
.850				-.1270	-.1110	-.1120	
.857			-.1050				
.865	-.1020						
.900	-.1050			-.1270			-.1120
.905			-.1190				
.950				-.1260	-.1140	-.1140	
.953			-.1230				

AMES 67-707 OA12 02A UPPER WING (PROG16)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 DELTA (5) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.897
X/CW							
.955	-.1050						

AMES 87-707 OA12 02A UPPER WING (RB9019) (15 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.6490 INCHES YMRP = .0000 INCHES
BREF = 39.6490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -8.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1800	-.1690	-.0230	.6270	.6570	.5640	.3590
.050				-.1940	-.1740	-.1440	-.1700
.081			-.1940				
.086		-.1530					
.094	-.1660						
.150				-.2220	-.2000	-.1780	-.1860
.177			-.1940				
.229	-.1730						
.246		-.1750					
.250				-.2280	-.2240	-.1990	-.2040
.362	-.1740						
.400				-.2260	-.2260		-.1960
.402			-.2000				
.497	-.1690						
.550				-.2220	-.1990		
.565			-.2010				
.600							-.1940
.650						-.1970	
.700	-.2050				-.2000		
.725				-.2220			
.750						-.1960	-.1910
.760			-.1940				
.775				-.2240	-.2010		
.808			-.1910				
.834	-.1940						
.850				-.2260	-.1970	-.1980	
.857			-.2100				
.865	-.1790						
.900	-.1760			-.2230			-.1940
.905			-.2110				
.950				-.2190	-.1960	-.1940	
.953			-.2000				
.965	-.1490						

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.239	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1950	-.1830	-.0700	.4950	.5360	.4440	.2750
.050				-.2020	-.1850	-.1680	-.1850
.081			-.1990				
.086		-.1800					
.094	-.1880						

AMES 8FT-TU C112 C2L UPPER WING (PSQU10)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.100

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.[illegible]				-.2220	-.2080	-.1880	-.1960
.[illegible]			-.2030				
.[illegible]	-.1090						
.246		-.1950					
.251				-.2210	-.2250	-.2030	-.2040
.362	-.1880						
.400				-.2200	-.2250		-.1990
.402			-.2030				
.497	-.1940						
.550				-.2210	-.2030		
.565			-.2010				
.600							-.2010
.650						-.2040	
.700	-.2040				-.2030		
.725				-.2220			
.750						-.2040	-.2090
.760			-.1990				
.775				-.2230	-.2030		
.808			-.1990				
.834	-.2000						
.850				-.2220	-.2040	-.2030	
.857			-.2120				
.865	-.1900						
.900	-.1890			-.2190			-.2150
.905			-.2160				
.950				-.2160	-.2030	-.2000	
.953			-.2100				
.965	-.1780						

MACH (1) = 2.498 BETA (3) = -.140

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1930	-.1940	-.1120	.3640	.4110	.3380	.1910
.050				-.2090	-.1990	-.1830	-.1960
.081			-.2070				
.086		-.2020					
.094	-.2020						
.150				-.2160	-.2150	-.1970	-.2050
.177			-.2050				
.229	-.2090						
.246		-.2100					
.250				-.2180	-.2100	-.1980	-.2040
.362	-.2070						
.400				-.2150	-.2090		-.2020
.402			-.2040				
.497	-.2090						

AMES 87-707 OA12 02A UPPER WING (RB3U19)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.493 BETA (3) = -.140

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2150	-.1970		
.565			-.2020				
.600							-.2020
.650						-.2000	
.700	-.2020				-.2000		
.725				-.2150			
.750						-.2000	-.1990
.760			-.1990				
.775				-.2120	-.2020		
.808			-.1990				
.834	-.2020						
.850				-.2080	-.2020	-.2010	
.857			-.1990				
.865	-.2010						
.900	-.2000			-.2030			-.2020
.905			-.2040				
.950				-.2040	-.2000	-.1990	
.953			-.1970				
.965	-.2000						

MACH (1) = 2.498 BETA (4) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2040	-.2000	-.1980	.2540	.2970	.2300	.1080
.050				-.2210	-.2160	-.1970	-.2080
.081			-.1990				
.086		-.2060					
.094	-.1990						
.150				-.2170	-.2180	-.2020	-.2060
.177			-.1980				
.229	-.2070						
.246		-.2040					
.250				-.2140	-.2180	-.2000	-.2060
.362	-.2000						
.400				-.2200	-.2150		-.2050
.402			-.1970				
.437	-.1960						
.550				-.2200	-.2150		
.565			-.1940				
.600							-.2060
.650						-.2070	
.700	-.1960				-.2050		
.725				-.2190			
.750						-.2100	-.2180
.760			-.1930				
.775				-.2180	-.2100		

AMES 87-707 CA12 C2A UPPER WING (691019)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (4) = 3.060

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.809			-.1930				
.834	-.1950						
.850				-.2170	-.2080	-.2100	
.857			-.2010				
.865	-.1960						
.900	-.1950			-.2170			-.2200
.905			-.2110				
.950				-.2180	-.2090	-.2090	
.953			-.2150				
.965	-.1960						

MACH (1) = 2.498 BETA (5) = 6.250

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.2070	-.2080	-.1600	.1610	.1910	.1340	.0320
.050				-.2250	-.2220	-.2100	-.2120
.081			-.1990				
.086		-.1980					
.094	-.1950						
.150				-.2230	-.2200	-.2030	-.2080
.177			-.1970				
.229	-.1960						
.246		-.1950					
.250				-.2220	-.2180	-.2010	-.2040
.362	-.1950						
.450				-.2200	-.2180		-.2050
.462			-.2010				
.497	.0000						
.550				-.2200	-.2040		
.565			-.2000				
.900							-.2070
.650						-.2040	
.700	-.1980				-.2040		
.725				-.2190			
.750						-.2050	-.2030
.760			-.1970				
.775				-.2180	-.2050		
.808			-.1940				
.834	-.1960						
.850				-.2170	-.2050	-.2070	
.857			-.2000				
.865	-.1980						
.900	-.1990			-.2140			-.2050
.905			-.2120				
.950				-.2130	-.2070	-.2070	
.953			-.2160				

AMES 87-707 OA12 02A UPPER WING (RBQU19)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.365	-.19[illegible]						

MACH (2) = 3.502 BETA (1) = -6.700

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0730	-.0570	.1050	.9820	.9080	.5300	.3740
.050				-.0660	-.0480	-.0390	-.0830
.081			-.0940				
.086		-.0790					
.094	-.0300						
.150				-.1040	-.0860	-.0590	-.0960
.177			-.0980				
.229	-.0810						
.246		-.0850					
.250				-.1240	-.1120	-.0780	-.1080
.362	-.0850						
.400				-.1260	-.1230		-.1110
.402			-.0970				
.497	-.0940						
.550				-.1240	-.1000		
.565			-.0970				
.600							-.1110
.650						-.0930	
.700	-.0990				-.1010		
.725				-.1250			
.750						-.1030	-.0990
.760			-.0960				
.775				-.1240	-.1030		
.808			-.0990				
.834	-.0970						
.850				-.1230	-.1030	-.1030	
.857			-.1150				
.865	-.0910						
.900	-.0890			-.1230			-.1070
.905			-.1190				
.950				-.1210	-.0980	-.1030	
.953			-.1140				
.965	-.0790						

MACH (2) = 3.502 BETA (2) = -3.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0800	-.0700	.0490	.8350	.8260	.5720	.3020
.050				-.0920	-.0660	-.0420	-.0840
.081			-.1220				
.086		-.1080					
.094	-.1110						

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AMES 87-707 OA12 C2A UPPER WING (RBOU19)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -3.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1210	-.0960	-.0720	-.0920
.177			-.1230				
.229	-.1090						
.246		-.1170					
.250				-.1340	-.1220	-.0920	-.0990
.362	-.1130						
.400				-.1370	-.1340		-.1040
.402			-.1220				
.497	-.1200						
.550				-.1350	-.1010		
.565			-.1180				
.600							-.1000
.650						-.1010	
.700	-.1230				-.1040		
.725				-.1360			
.750						-.1040	-.1010
.760			-.1210				
.775				-.1350	-.1050		
.808			-.1210				
.834	-.1220						
.850				-.1340	-.1050	-.1060	
.857			-.1260				
.865	-.1170						
.900	-.1160			-.1320			-.1060
.905			-.1310				
.950				-.1310	-.1040	-.1030	
.953			-.1290				
.965	-.1090						

MACH (2) = 3.502 BETA (3) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.030	-.0950	-.0890	.0010	.6600	.6850	.6170	.2930
.050				-.1090	-.0870	-.0570	-.0800
.081			-.1280				
.086		-.1270					
.094	-.1210						
.150				-.1290	-.1090	-.0810	-.0900
.177			-.1290				
.229	-.1200						
.246		-.1270					
.250				-.1370	-.1300	-.1050	-.1030
.362	-.1210						
.400				-.1360	-.1380		-.1100
.402			-.1280				
.497	-.1250						

AMES 87-707 OA12 02A UPPER WING (RBQU19)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.302 BETA (3) = -.130

Y/SW / X/CW	.299	.364	.427	.534	.673	.780	.887
.550				-.1460	-.1090		
.585			-.1250				
.600							-.1130
.650						-.1100	
.700	-.1230				-.1100		
.725				-.1360			
.750						-.1120	-.1050
.775			-.1270				
.790				-.1360	-.1120		
.800			-.1270				
.834	-.1270						
.850				-.1350	-.1110	-.1130	
.867			-.1290				
.885	-.1230						
.900	-.1250			-.1330			-.1100
.905			-.1350				
.920				-.1350	-.1110	-.1120	
.953			-.1310				
.965	-.1250						

MACH (2) = 3.302 BETA (4) = 3.170

Y/SW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.1010	-.0960	-.0310	.5020	.5550	.4500	.3120
.050				-.1330	-.1170	-.0700	-.0820
.081			-.1120				
.086		-.1080					
.094	-.1070						
.150				-.1460	-.1340	-.0870	-.0930
.177			-.1110				
.229	-.1110						
.246		-.1110					
.250				-.1480	-.1470	-.1020	-.1040
.362	-.1110						
.400				-.1480	-.1490		-.1120
.402			-.1100				
.497	-.1080						
.550				-.1480	-.1030		
.565			-.1080				
.600							-.1110
.650						-.1080	
.700	-.1050				-.1070		
.725				-.1500			
.750						-.1110	-.0980
.760			-.1070				
.775				-.1490	-.1090		

AMES 87-707 OA12 CCA (UPPER WING (PQU19)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.170

Y/BW	.299	.364	.427	.534	.673	.780	.867
X/CW							
.808			-.1080				
.834	-.1100						
.850				-.1500	-.1090	-.1100	
.857			-.1360				
.865	-.1110						
.900	-.1090			-.1470			-.1100
.905			-.1450				
.950				-.1470	-.1090	-.1100	
.953			-.1470				
.965	-.1080						

MACH (2) = 3.502 BETA (5) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.867
X/CW							
.000	-.1020	-.1000	-.0580	.3610	.4100	.3690	.2570
.050				-.1190	-.1110	-.0850	-.0920
.081			-.1040				
.086		-.1030					
.84	-.0930						
.150				-.1270	-.1220	-.0970	-.1010
.177			-.1030				
.229	-.0983						
.246		-.1020					
.250				-.1300	-.1290	-.1100	-.1100
.362	-.0980						
.400				-.1270	-.1290		-.1120
.402			-.1030				
.497	-.1000						
.550				-.1290	-.1040		
.565			-.1010				
.600							-.1110
.650						-.1110	
.700	-.1010				-.1100		
.725				-.1270			
.750						-.1110	-.1010
.760			-.1030				
.775				-.1270	-.1090		
.808			-.1040				
.834	-.1030						
.850				-.1250	-.1090	-.1100	
.857			-.1180				
.865	-.1020						
.900	-.1000			-.1290			-.1070
.905			-.1240				
.950				-.1300	-.1090	-.1100	
.953			-.1240				

AMES 87-707 OA12 OEA UPPER WING (RBQU19)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (5) = 6.470

Y/BW	.099	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.1013						

AMES 87-707 OA12 02A UPPER WING (RBQU20) (16 / 1 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 0.000

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1860	-.1770	-.0310	.6240	.6480	.5410	.3700
.050				-.1980	-.1740	-.1450	-.1690
.081			-.1810				
.086		-.1510					
.094	-.1650						
.150				-.2260	-.2040	-.1750	-.1850
.177			-.1920				
.229	-.1710						
.246		-.1720					
.250				-.2290	-.2280	-.1950	-.1990
.362	-.1730						
.400				-.2270	-.2270		-.1980
.402			-.1970				
.497	-.1860						
.550				-.2240	-.1970		
.565			-.2010				
.600							-.1960
.650						-.1970	
.700	-.2010				-.1970		
.725				-.2280			
.750						-.1970	-.1960
.760			-.1910				
.775				-.2260	-.1970		
.808			-.1890				
.834	-.1920						
.850				-.2260	-.1970	-.1900	
.857			-.2160				
.865	-.1840						
.900	-.1800			-.2220			-.2000
.905			-.2140				
.950				-.2160	-.1950	-.1950	
.953			-.2110				
.965	-.1650						

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1970	-.1940	-.0810	.4870	.5280	.4350	.2850
.050				-.2050	-.1870	-.1700	-.1870
.081			-.1990				
.086		-.1810					
.094	-.1880						

AMES 67-707 OA12 O2A UPPER WING (RBQU20)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.300

Y/BW	.239	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2260	-.2100	-.1920	-.1990
.177			-.2060				
.229	-.1880						
.246		-.1930					
.250				-.2240	-.2280	-.2060	-.2100
.362	-.1910						
.400				-.2240	-.2250		-.2090
.402			-.2040				
.497	-.2010						
.550				-.2240	-.2060		
.565			-.2000				
.600							-.2060
.650						-.2070	
.700	-.2030				-.2050		
.725				-.2250			
.750						-.2060	-.2050
.760			-.1990				
.775				-.2240	-.2070		
.808			-.1960				
.834	-.1990						
.850				-.2240	-.2060	-.2090	
.857			-.2150				
.865	-.1950						
.900	-.1900			-.2190			-.2110
905			-.2150				
.950				-.2160	-.2030	-.2080	
.953			-.2150				
.965	-.1870						

MACH (1) = 2.499 BETA (3) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2010	-.2010	-.1140	.3650	.4100	.3340	.2040
.050				-.2210	-.2060	-.1840	-.1970
.081			-.2050				
.086		-.1980					
.094	-.2000						
.150				-.2220	-.2250	-.2020	-.2070
.177			-.2000				
.229	-.2030						
.246		-.2030					
.250				-.2210	-.2310	-.2060	-.2070
.362	-.2010						
.400				-.2220	-.2280		-.2030
.402			-.1940				
.497	-.1910						

AMES 87-707 OA12 02A UPPER WING (PSQU20)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2200	-.2000		
.565			-.1920				
.600							-.2000
.650						-.2040	
.700	-.1900				-.1970		
.725				-.2170			
.750						-.2010	-.1980
.760			-.1900				
.775				-.2190	- 1990		
.808			-.1890				
.834	-.1900						
.850				-.2160	-.1990	-.2000	
.867			-.2100				
.885	-.1900						
.900	-.1950			-.2160			-.1980
.925			-.2120				
.930				-.2120	-.1990	-.1990	
.958			-.2140				
.965	-.1830						

MACH (1) = 2.499 BETA (4) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.010	-.2090	-.2120	- 1420	.2520	.2960	.2310	.1240
.030				-.2150	-.2120	-.1980	-.2060
.084			-.1980				
.110		- 1930					
.034	-.2030						
.150				-.2090	-.2080	-.1930	-.1980
.177			-.1940				
.222	-.2020						
.246		-.1970					
.270				-.2060	-.2060	-.1920	-.1970
.332	-.1970						
.400				-.2060	-.2090		-.1900
.402			-.1850				
.437	-.1890						
.550				-.2080	-.1950		
.565			-.1840				
.600							-.1990
.650						-.1990	
.700	-.1860				-.2000		
.725				-.2110			
.750						-.1970	-.1950
.760			-.1860				
.775				-.2070	-.2020		

AMES 87-707 OA12 OBA UPPER WING (RBGU20)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1860				
.834	-.1980						
.850				-.2060	-.2020	-.2000	
.857			-.2060				
.865	-.1870						
.900	-.1880			-.2070			-.1990
.905			-.2080				
.950				-.2100	-.2010	-.1950	
.953			-.2110				
.965	-.1880						

MACH (1) = 2.498 BETA (5) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2060	-.2070	-.1610	.1620	.1910	.1370	.0450
.050				-.2270	-.2230	-.2070	-.2100
.081			-.1970				
.086		-.1970					
.094	-.1930						
.150				-.2250	-.2170	-.2010	-.2050
.177			-.1970				
.229	-.1940						
.246		-.1960					
.250				-.2220	-.2170	-.1990	-.2030
.362	-.1940						
.400				-.2220	-.2170		-.2030
.402			-.1990				
.497	-.1940						
.550				-.2220	-.2040		
.565			-.1990				
.600							-.2030
.650						-.2020	
.700	-.1970				-.2040		
.725				-.2220			
.750						-.2040	-.2010
.760			-.1970				
.775				-.2200	-.2060		
.808			-.1930				
.834	-.1950						
.850				-.2170	-.2060	-.2030	
.857			-.2110				
.865	-.1940						
.900	-.1950			-.2180			-.2070
.905			-.2170				
.950				-.2170	-.2090	-.2030	
.953			-.2180				

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 O2A UPPER WING (RBQU20)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.1970						

MACH (2) = 3.501 BETA (1) = -6.700

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0780	-.0610	.1020	.9730	.9000	.5290	.3800
.050				-.0640	-.0430	-.0430	-.0850
.081			-.0950				
.086		-.0800					
.094	-.0830						
.150				-.1040	-.0820	-.0620	-.0990
.177			-.0940				
.229	-.0840						
.246		-.0870					
.250				-.1220	-.1090	-.0820	-.1080
.362	-.0880						
.400				-.1200	-.1210		-.1120
.402			-.0990				
.497	-.0960						
.550				-.1210	-.1040		
.565			-.0990				
.600							-.1120
.650						-.1000	
.700	-.1000				-.1040		
.725				-.1210			
.750						-.1060	-.1050
.760			-.0990				
.775				-.1220	-.1050		
.808			-.0980				
.834	-.0990						
.850				-.1200	-.1050	-.1080	
.857			-.1110				
.865	-.0990						
.900	-.0950			-.1190			-.1120
.905			-.1150				
.950				-.1140	-.1070	-.1070	
.953			-.1160				
.965	-.0900						

MACH (2) = 3.501 BETA (2) = -3.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0870	-.0780	.0470	.8280	.8180	.5640	.3000
.050				-.0810	-.0540	-.0470	-.0870
.081			-.0970				
.086		-.0950					
.094	-.0910						

AMES 87-707 OA12 O2A UPPER WING (RBQU20)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (2) = -3.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1080	-.0830	-.0740	-.0920
.177			-.1020				
.229	-.0920						
.246		-.0950					
.250				-.1230	-.1070	-.0940	-.0980
.362	-.0930						
.400				-.1220	-.1230		-.1050
.402			-.1020				
.497	-.0980						
.550				-.1240	-.1050		
.565			-.1010				
.600							-.1100
.650						-.1050	
.700	-.1010				-.1070		
.725				-.1230			
.750						-.1100	-.1030
.760			-.1000				
.775				-.1220	-.1080		
.808			-.0990				
.834	-.1030						
.850				-.1220	-.1080	-.1090	
.857			-.1120				
.665	-.1010						
.900	-.0980			-.1210			-.1110
.905			-.1190				
.950				-.1180	-.1070	-.1080	
.953			-.1160				
.965	-.0950						

MACH (2) = 3.501 BETA (3) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0980	-.0940	-.0030	.6590	.6800	.6120	.2940
.050				-.0990	-.0730	-.0560	-.0780
.081			-.1090				
.086		-.1030					
.094	-.1000						
.150				-.1190	-.0970	-.0810	-.0890
.177			-.1090				
.229	-.1010						
.246		-.1060					
.250				-.1280	-.1180	-.1010	-.1020
.362	-.1030						
.400				-.1270	-.1250		-.1080
.402			-.1040				
.497	-.1070						

TUE 10 SEP 79 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 C2A UPPER WING (R23U20)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1230	-.1070		
.565			-.1040				
.600							-.1090
.650						-.1050	
.700	-.1010				-.1080		
.725				-.1240			
.750						-.1090	-.1020
.760			-.1020				
.775				-.1220	-.1080		
.800			-.1010				
.834	-.1010						
.850				-.1240	-.1070	-.1080	
.857			-.1140				
.865	-.1010						
.900	-.1000			-.1240			-.1080
.905			-.1180				
.950				-.1240	-.1070	-.1080	
.953			-.1190				
.965	-.0990						

MACH (2) = 3.501 BETA (4) = 3.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0990	-.0980	-.0310	.4970	.5570	.4900	.3140
.050				-.1100	-.0930	-.0710	-.0650
.081			-.1010				
.086		-.1060					
.094	-.1030						
.150				-.1230	-.1110	-.0890	-.0960
.177			-.1010				
.229	-.1050						
.246		-.1010					
.250				-.1240	-.1240	-.1060	-.1050
.362	-.1030						
.400				-.1230	-.1260		-.1110
.402			-.1010				
.497	-.1000						
.550				-.1220	-.1060		
.565			-.1010				
.600							-.1100
.650						-.1080	
.700	-.0970				-.1080		
.725				-.1240			
.750						-.1090	-.1030
.760			-.1000				
.775				-.1230	-.1080		

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 O2A UPPER WING (RBQU20)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1010				
.834	-.0990						
.850				-.1240	-.1080	-.1090	
.857			-.1130				
.865	-.0990						
.900	-.0980			-.1260			-.1100
.905			-.1180				
.950				-.1230	-.1080	-.1090	
.953			-.1210				
.965	-.1000						

MACH (2) = 3.501 BETA (5) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0990	-.0990	-.0550	.3600	.4090	.3710	.2610
.050				-.1160	-.1070	-.0880	-.0950
.081			-.1020				
.086		-.1020					
.094	-.0980						
.150				-.1230	-.1170	-.1020	-.1040
.177			-.1010				
.229	-.0990						
.245		-.1030					
.250				-.1250	-.1270	-.1130	-.1130
.362	-.0987						
.400				-.1250	-.1240		-.1150
.402			-.1017				
.497	-.1000						
.550				-.1270	-.1110		
.565			-.1010				
.600							-.1140
.650						-.1150	
.700	-.1010				-.1140		
.725				-.1240			
.750						-.1140	-.1060
.760			-.1040				
.775				-.1270	-.1140		
.800			-.1004				
.834	-.1010						
.870				-.1230	-.1130	-.1130	
.887			-.1170				
.891	-.1010						
.910	-.1020			-.1260			-.1150
.925			-.1210				
.940				-.1250	-.1110	-.1140	
.953			-.122				

AMES 87-707 OA12 02A UPPER WING (R83U20)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (3) = 6.470

Y/BW	.299	.364	.427	.534	.673	.760	.887
X/CW							
.965	-.1010						

AMES 87-707 OA12 O2A UPPER WING (RBQU21) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1890	-.1780	-.0280	.6210	.6500	.5600	.3700
.050				-.1910	-.1710	-.1410	-.1630
.081			-.1790				
.086		-.1460					
.094	-.1620						
.150				-.2220	-.1980	-.1710	-.1820
.177			-.1890				
.229	-.1640						
.246		-.1710					
.250				-.2210	-.2240	-.1870	-.1750
.362	-.1710						
.400				-.2190	-.2170		-.1730
.402			-.1910				
.497	-.1640						
.550				-.2190	-.1880		
.565			-.1890				
.600							-.1760
.650						-.1810	
.700	-.1680				-.1850		
.725				-.2230			
.750						-.1820	-.1810
.760			-.1800				
.775				-.2200	-.1860		
.808			-.1730				
.834	-.1730						
.850				-.2180	-.1850	-.1860	
.857			-.2010				
.865	-.1670						
.900	-.1570			-.2100			-.1810
.905			-.1970				
.950				-.2000	-.1740	-.1810	
.953			-.1780				
.965	-.0960						

MACH (1) = 2.498 BETA (2) = -3.310

Y/BW	.299	.364	.427	534	.673	.780	.887
X/CW							
.000	-.1960	-.1910	-.0780	.4900	.5290	.4370	.2850
.050				-.2140	-.2000	-.1650	-.1840
.081			-.2000				
.086		-.1800					
.094	-.1870						

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 67-707 OA12 02A UPPER WING (RBGU21)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -3.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2380	-.2220	-.1900	-.1890
.177			-.2020				
.229	-.1900						
.246		-.1930					
.250				-.2360	-.2380	-.1930	-.1840
.362	-.1900						
.400				-.2340	-.2350		-.1840
.402			-.1990				
.497	-.1890						
.550				-.2350	-.2000		
.565			-.1990				-.1880
.600						-.1920	
.650					-.1990		
.700	-.2020						
.725				-.2370			
.750						-.1940	-.1930
.760			-.1970				
.775				-.2360	-.1970		
.808			-.1980				
.834	-.1920						
.850				-.2350	-.1970	-.1980	
.857			-.2260				
.865	-.1800						
.900	-.1760			-.2290			-.1910
.905			-.2200				
.950				-.2220	-.1952	-.1940	
.953			-.2030				
.965	-.1680						

MACH (1) = 2.498 BETA (3) = -.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1920	-.1910	-.1100	.3700	.4160	.3350	.2060
.050				-.2290	-.2190	-.1810	-.1930
.081			-.2020				
.086		-.1960					
.094	-.1960						
.150				-.2280	-.2330	-.1990	-.2050
.177			-.1990				
.229	-.1960						
.246		-.2030					
.250				-.2330	-.2390	-.2060	-.2010
.362	-.1980						
.400				-.2340	-.2360		-.2000
.402			-.1940				
.497	-.1910						

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AMES 87-707 OA12 02A UPPER WING (RBQU21)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.493 BETA (3) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2310	-.2010		
.565			-.1870				
.600							-.1960
.650						-.1990	
.700	-.1910				-.2000		
.725				-.2320			
.750						-.1950	-.1920
.760			-.1880				
.775				-.2320	-.1990		
.808			-.1890				
.834	-.1880						
.850				-.2340	-.1990	-.1910	
.857			-.2270				
.865	-.1880						
.900	-.1890			-.2340			-.1890
.905			-.2290				
.950				-.2360	-.1960	-.1840	
.953			-.2260				
.965	-.1880						

MACH (1) = 2.498 BETA (4) = 5.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2020	-.2030	-.1410	.2530	.2970	.2310	.1220
.050				-.2290	-.2240	-.1920	-.2030
.081			-.1950				
.086		-.2070					
.094	-.1990						
.150				-.2240	-.2240	-.1950	-.2010
.177			-.1920				
.229	-.2060						
.246		-.2030					
.250				-.2230	-.2210	-.1940	-.1990
.362	-.1990						
.400				-.2260	-.2260		-.1980
.402			-.1890				
.497	-.1930						
.550				-.2240	-.1970		
.565			-.1910				
.600							-.1980
.650						-.2000	
.700	-.1890				-.2030		
.725				-.2270			
.750						-.1990	-.1940
.760			-.1890				
.775				-.2290	-.2040		

AMES 87-707 OA12 O2A UPPER WING (RBOU21)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1900				
.834	-.1890						
.850				-.2290	-.2020	-.2010	
.857			-.2230				
.865	-.1890						
.900	-.1890			-.2300			-.1980
.905			-.2220				
.950				-.2320	-.2020	-.2000	
.953			-.2220				
.965	-.1940						

MACH (1) = 2.498 BETA (5) = 6.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2100	-.2140	-.1680	.1530	.1870	.1290	.0380
.050				-.2360	-.2360	-.2080	-.2110
.091			-.1900				
.086		-.1910					
.094	-.1860						
.150				-.2350	-.2340	-.2030	-.2080
.177			-.1910				
.229	-.1870						
.246		-.1920					
.250				-.2350	-.2320	-.2000	-.2060
.362	-.1880						
.400				-.2320	-.2310		-.2030
.402			-.1900				
.497	-.1880						
.550				-.2310	-.2000		
.565			-.1920				
.600							-.2030
.630						-.2010	
.700	-.1880				-.2020		
.725				-.2300			
.750						-.2010	-.1990
.760			-.1920				
.775				-.2320	-.2010		
.809			-.1920				
.834	-.1890						
.850				-.2320	-.2020	-.2010	
.857			-.2260				
.855	-.1900						
.900	-.1910			-.2320			-.2030
.905			-.2080				
.950				-.2300	-.2000	-.2030	
.953			-.0290				

AMES 87-707 OA12 C2A UPPER WING (RBQU21)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.995	-.1910						

MACH (2) = 3.503 BETA (1) = -8.700

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0710	-.0560	.1070	.9790	.8990	.5310	.3930
.050				-.0670	-.0500	-.0360	-.0650
.081			-.0890				
.086		-.0730					
.094	-.0760						
.150				-.1100	-.0900	-.0530	-.0900
.177			-.0930				
.229	-.0770						
.246		-.0800					
.250				-.1270	-.1160	-.0750	-.1020
.362	-.0830						
.400				-.1290	-.1240		-.1050
.402			-.0910				
.497	-.0880						
.550				-.1270	-.0930		
.565			-.0900				
.600							-.1030
.650						-.0900	
.700	-.0900				-.0950		
.725				-.1270			
.750						-.0940	-.0960
.760			-.0920				
.775				-.1260	-.0950		
.808			-.0930				
.834	-.0890						
.850				-.1240	-.0950	-.0800	
.857			-.1170				
.865	-.0810						
.900	-.0720			-.1220			-.1010
.905			-.1190				
.950				-.1190	-.0860	-.0210	
.953			-.1110				
.965	-.0580						

MACH (2) = 3.503 BETA (2) = -3.410

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0830	-.0770	.0450	.8320	.8210	.5690	.3110
.050				-.0810	-.0540	-.0460	-.0870
.081			-.1220				
.086		-.1090					
.094	-.1100						

AMES 87-707 OA12 02A UPPER WING (RBQU21)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (2) = -3.410

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1110	-.0840	-.0740	-.0950
.177			-.1220				
.229	-.1100						
.246		-.1090					
.250				-.1230	-.1090	-.0960	-.1010
.362	-.1140						
.400				-.1230	-.1180		-.1070
.402			-.1200				
.497	-.1190						
.550				-.1210	-.1020		
.565			-.1190				
.600							-.1060
.650						-.1010	
.700	-.1190				-.1020		
.725				-.1200			
.750						-.0990	-.0860
.760			-.1200				
.775				-.1200	-.1010		
.808			-.1210				
.834	-.1180						
.850				-.1170	-.1010	-.1010	
.857			-.1140				
.865	-.1180						
.900	-.1180			-.1170			-.0510
.905			-.1150				
.950				-.1140	-.0970	-.1010	
.953			-.1080				
.965	-.1080						

MACH (2) = 3.503 BETA (3) = -.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0980	-.0930	.0000	.6660	.6890	.6190	.3060
.050				-.1070	-.0810	-.0510	-.0730
.081			-.1050				
.086		-.0970					
.094	-.0920						
.150				-.1270	-.1060	-.0770	-.0840
.177			-.1050				
.229	-.0970						
.246		-.1000					
.250				-.1340	-.1260	-.0940	-.0980
.362	-.0990						
.400				-.1330	-.1310		-.1040
.402			-.1000				
.497	-.1000						

AMES 67-707 OA12 02A UPPER WING (RBQU21)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (3) = -.130

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.550				-.1320	-.1010		
.575			-.0980				
.600							-.1040
.650						-.1000	
.700	-.0950				-.1010		
.725				-.1320			
.750						-.1010	-.0960
.760			-.0970				
.775				-.1300	-.1010		
.808			-.0940				
.834	-.0950						
.850				-.1310	-.1000	-.1010	
.857			-.1210				
.865	-.0940						
.900	-.0960			-.1290			-.0970
.905			-.1260				
.950				-.1300	-.0990	-.1020	
.953			-.1290				
.965	-.0940						

MACH (2) = 3.503 BETA (4) = 3.170

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.1000	-.0980	-.0330	.4960	.5490	.4870	.3190
.050				-.1180	-.0990	-.0690	-.0810
.081			-.1070				
.086		-.1100					
.094	-.0960						
.150				-.1310	-.1150	-.0870	-.0940
.177			-.1050				
.229	-.1060						
.246		-.1090					
.250				-.1330	-.1300	-.1030	.1030
.362	-.1070						
.400				-.1330	-.1340		-.1090
.402			-.1040				
.497	-.1040						
.550				-.1300	-.1050		
.565			-.1050				
.600							-.1080
.650						-.1090	
.700	-.104[illegible]				-.1090		
.725				-.1310			
.750						-.1070	-.1000
.760			-.1060				
.775				-.1330	-.1080		

AMES 87-707 OA12 02A UPPER WING (RBQU21)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1060				
.834	-.1030						
.850				-.1310	-.1080	-.1080	
.857			-.1230				
.865	-.1020						
.900	-.1040			-.1330			-.1030
.905			-.1280				
.950				-.1330	-.1090	-.1090	
.953			-.1310				
.965	-.1050						

MACH (2) = 3.503 BETA (5) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0980	-.1000	-.0530	.3600	.4120	.3700	.2650
.050				-.1320	-.1200	-.0840	-.0900
.081			-.1020				
.086		-.1010					
.094	-.0970						
.150				-.1390	-.1350	-.0970	-.1000
.177			-.1000				
.229	-.0970						
.246		-.1020					
.250				-.1400	-.1410	-.1090	-.1100
.362	-.0970						
.400				-.1400	-.1400		-.1110
.402			-.0990				
.497	-.1000						
.550				-.1420	-.1050		
.565			-.0990				
.600							-.1090
.650						-.1100	
.700	-.0990				-.1100		
.725				-.1400			
.750						-.1090	-.1000
.760			-.1010				
.775				-.1400	-.1100		
.808			-.1010				
.834	-.1000						
.850				-.1400	-.1100	-.1090	
.857			-.1300				
.865	-.1010						
.900	-.0980			-.1400			-.1080
.905			-.1360				
.950				-.1410	-.1090	-.1090	
.953			-.1380				

AMES 87-707 OA12 02A UPPER WING (RBQU21)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.509 BETA (3) = 6.470

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0980						

AMES 87-707 C412 02A UPPER WING (RBSU22) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (1) = -4.630

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0860	-.0770	.2160	1.1180	1.0770	1.0720	.8180
.050				-.0550	.0110	.0540	.0660
.081			-.1300				
.086		-.0430					
.094	-.0680						
.150				-.1420	-.0830	-.0530	-.0430
.177			-.1450				
.229	-.0680						
.246		-.0800					
.250				-.1810	-.1440	-.1150	-.1020
.362	-.0400						
.400				-.1900	-.1790		-.1300
.402			-.1720				
.437	-.1110						
.550				-.1890	-.1770		
.563			-.1800				
.600							-.1600
.650						-.1710	
.700	-.1510				-.1770		
.725				-.1920			
.750						-.1760	-.1790
.760			-.1760				
.775				-.1920	-.1760		
.808			-.1700				
.834	-.1680						
.850				-.1900	-.1760	-.1790	
.857			-.1790				
.865	-.1500						
.900	-.1290			-.1850			-.1550
.905			-.1610				
.950				-.1750	-.1730	-.1770	
.953			-.1450				
.965	-.0440						

MACH (1) = 2.498 BETA (2) = -5.610

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.1410	-.1350	.0720	.8960	.8870	.8890	.7690
.050				-.1110	-.0550	-.0080	.0090
.081			-.1470				
.086		-.1110					
.094	-.1270						

AMES 87-707 OA12 OEA UPPER WING (RBQU22)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = -5.610

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.150				-.1760	-.1230	-.0940	-.0820
.177			-.1650				
.229	-.1270						
.246		-.1270					
.250				-.2040	-.1730	-.1420	-.1300
.362	-.1190						
.400				-.2060	-.2020		-.1550
.402			-.1860				
.497	-.1540						
.550				-.2030	-.1920		
.565			-.1950				
.600							-.1820
.650						-.1850	
.700	-.1780				-.1880		
.725				-.2040			
.750						-.1900	-.1950
.760			-.1930				
.775				-.2070	-.1890		
.808			-.1870				
.834	-.1930						
.850				-.2040	-.1890	-.1910	
.857			-.1960				
.965	-.1760						
.900	-.1630			-.2020			-.1810
.905			-.1830				
.950				-.1870	-.1860	-.1920	
.953			-.1600				
.965	-.1130						

MACH (1) = 2.498 BETA (3) = .430

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.1840	-.1840	-.0740	.5850	.6230	.6140	.5140
.050				-.1770	-.1330	-.0960	-.0850
.081			-.1850				
.086		-.1630					
.094	-.1740						
.150				-.2100	-.1730	-.1450	-.1370
.177			-.1940				
.229	-.1780						
.246		-.1790					
.250				-.2190	-.2040	-.1770	-.1700
.362	-.1780						
.400				-.2180	-.2200		-.1870
.402			-.2020				
.497	-.1880						

AMES 67-707 OA12 O2A UPPER WING (RBOU2?

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = .450

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.550				-.2190	-.1990		
.565			-.2040				
.600							-.2020
.650						-.1950	
.700	-.2020				-.1990		
.725				-.2190			
.750						-.2010	-.2010
.760			-.1960				
.775				-.2190	-.2010		
.808			-.1940				
.834	-.1960						
.850				-.2160	-.2020	-.2010	
.857			-.2080				
.865	-.1840						
.900	-.1780			-.2120			-.2040
.905			-.2060				
.950				-.2080	-.2010	-.2020	
.953			-.1990				
.965	-.1480						

MACH (1) = 2.498 BETA (4) = 6.450

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.1970	-.2060	-.1590	.2920	.3610	.3450	.2510
.050				-.2120	-.1900	-.1620	-.1590
.081			-.2070				
.086		-.1970					
.094	-.2010						
.150				-.2230	-.2120	-.1860	-.1850
.177			-.2080				
.229	-.1960						
.246		-.2060					
.250				-.2240	-.2250	-.2040	-.2030
.362	-.1930						
.400				-.2250	-.2160		-.1970
.402			-.2000				
.497	-.2050						
.550				-.2250	-.1980		
.565			-.1990				
.600							-.1950
.650						-.2000	
.700	-.1990				-.1980		
.725				-.2160			
.750						-.1990	-.1690
.760			-.1900				
.775				-.2080	-.1980		

AMES 87-707 OA12 O2A UPPER WING (RBQU22)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (4) = 6.450

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1870				
.834	-.1930						
.850				-.2030	-.2000	-.1980	
.857			-.2000				
.865	-.1900						
.900	-.1880			-.2020			-.1930
.905			-.1950				
.950				-.2000	-.1960	-.1910	
.953			-.1870				
.965	-.1790						

MACH (1) = 2.498 BETA (5) = 10.460

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2050	-.2150	-.1860	.1380	.2120	.1920	.1220
.050				-.2160	-.2090	-.1910	-.1910
.081			-.2055				
.086		-.2050					
.094	-.2070						
.150				-.2180	-.2130	-.1980	-.2010
.177			-.2000				
.229	-.2040						
.246		-.2080					
.250				-.2150	-.2100	-.1980	-.1960
.362	-.2000						
.400				-.2160	-.2090		-.1920
.402			-.1950				
.497	-.2000						
.550				-.2130	-.1970		
.565			-.1920				
.600							-.1950
.650						-.1970	
.700	-.2010				-.1970		
.725				-.2110			
.750						-.1950	-.1900
.760			-.1850				
.775				-.2060	-.1970		
.808			-.1830				
.834	-.1890						
.850				-.2020	-.1970	-.1930	
.857			-.1980				
.865	-.1860						
.900	-.1850			-.1970			-.1900
.905			-.1960				
.950				-.1930	-.1970	-.1860	
.953			-.1900				

AMES 67-707 OA12 02A UPPER WING (RBQU22)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 10.460

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.1830						

MACH (2) = 3.502 BETA (1) = -9.610

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0260	.0030	.3480	1.4960	.9570	.9880	.9200
.050				.0760	.1110	.0520	.0480
.081			-.0510				
.086		.0030					
.094	-.0180						
.150				-.0360	.0210	-.0230	-.0360
.177			-.0700				
.229	-.0240						
.246		-.0220					
.250				-.0820	-.0420	-.0630	-.0740
.362	-.0200						
.400				-.1080	-.0800		-.0890
.402			-.0840				
.497	-.0440						
.550				-.1120	-.0940		
.565			-.0930				
.600							-.0900
.650						-.0840	
.700	-.0750				-.0930		
.725				-.1110			
.750						-.0890	-.0890
.760			-.0920				
.775				-.1110	-.0890		
.808			-.0890				
.834	-.0890						
.850				-.1060	-.0880	-.0900	
.857			-.0990				
.865	-.0880						
.900	-.0840			-.0990			-.0900
.905			-.0960				
.950				-.0870	-.0830	-.0900	
.953			-.0850				
.965	-.0410						

MACH (2) = 3.502 BETA (2) = -5.600

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0560	-.0410	.2090	1.2630	1.0400	.8690	.7730
.050				.0220	.0690	.0420	.0320
.081			-.0790				
.086		-.0450					
.094	-.0570						

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AMES 87-707 OA12 O2A UPPER WING (RB8U22)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = -5.600

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0640	-.0210	-.0030	-.0360
.177			-.0860				
.229	-.0620						
.246		-.0580					
.250				-.0950	-.0720	-.0370	-.0710
.362	-.0570						
.400				-.1160	-.0980		-.0870
.402			-.0950				
.497	-.0740						
.550				-.1160	-.1030		
.565			-.1000				
.600							-.0920
.630						-.0870	
.700	-.0920				-.1020		
.725				-.1180			
.750						-.0930	-.0900
.760			-.0960				
.775				-.1170	-.1000		
.808			-.0940				
.834	-.0950						
.850				-.1140	-.0970	-.0930	
.857			-.1030				
.865	-.0940						
.900	-.0920			-.1110			-.0920
.933			-.1040				
.950				-.1060	-.0960	-.0910	
.953			-.1010				
.965	-.0840						

MACH (2) = 3.502 BETA (3) = .420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0640	-.0320	.0350	.8840	.9080	.9110	.5760
.050				-.0530	.0080	.0580	.0570
.081			-.0890				
.086		-.0880					
.094	-.0890						
.150				-.0970	-.0520	-.0190	-.0140
.177			-.0980				
.229	-.0900						
.246		-.0880					
.250				-.1190	-.0910	-.0640	-.0530
.362	-.0920						
.400				-.1180	-.1140		-.0750
.402			-.1010				
.497	-.0980						

AMES 67-70T OA12 02A UPPER WING (RBQU22)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (3) = .420

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.550				-.1210	-.1070		
.565			-.0990				
.600							-.0960
.650						-.0980	
.700	-.1000				-.1060		
.725				-.1190			
.750						-.1040	-.1020
.760			-.1030				
.775				-.1210	-.1060		
.808			-.1020				
.834	-.0990						
.850				-.1210	-.1030	-.1040	
.857			-.1090				
.865	-.1010						
.900	-.1020			-.1200			-.1030
.905			-.1130				
.950				-.1160	-.1020	-.1060	
.953			-.1130				
.965	-.0860						

MACH (2) = 3.502 BETA (4) = 6.440

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0920	-.1010	-.0570	.5570	.5690	.6030	.5300
.050				-.0950	-.0580	-.0190	-.0010
.091			-.1020				
.086		-.1040					
.094	-.0970						
.150				-.1150	-.0880	-.0620	-.0520
.177			-.1050				
.229	-.1000						
.246		-.1020					
.250				-.1230	-.1090	-.0870	-.0810
.362	-.1020						
.400				-.1220	-.1220		-.0960
.402			-.1020				
.497	-.1010						
.550				-.1220	-.1070		
.565			-.1040				
.600							-.1080
.650						-.1040	
.700	-.1010				-.1080		
.725				-.1220			
.750						-.1070	-.1010
.760			-.1040				
.775				-.1210	-.1080		

AMES 87-707 OA12 OEA UPPER WING (RBGU22)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.902 BETA (4) = 0.440

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.808			-.1020				
.834	-.1020						
.850				-.1200	-.1070	-.1080	
.857			-.1080				
.865	-.1010						
.900	-.1020			-.1200			-.1080
.905			-.1170				
.950				-.1190	-.1050	-.1070	
.953			-.1170				
.965	-.1040						

MACH (2) = 3.902 BETA (5) = 10.440

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0990	-.1080	-.0840	.3620	.4150	.4260	.3600
.050				-.1170	-.0890	-.0590	-.0490
.081			-.1080				
.086		-.1080					
.094	-.1030						
.150				-.1260	-.1090	-.0830	-.0760
.177			-.1080				
.229	-.1060						
.246		-.1100					
.250				-.1260	-.1240	-.1000	-.0960
.362	-.1070						
.400				-.1260	-.1270		-.1040
.402			-.1070				
.497	-.1080						
.550				-.1260	-.1090		
.565			-.1060				
.600							-.1090
.650						-.1090	
.700	-.1040				-.1110		
.725				-.1240			
.750						-.1080	-.1030
.760			-.1060				
.773				-.1240	-.1110		
.808			-.1060				
.834	-.1030						
.850				-.1250	-.1090	-.1090	
.857			-.1120				
.865	-.1030						
.900	-.1030			-.1260			-.1130
.905			-.1210				
.950				-.1230	-.1090	-.1100	
.953			-.1210				

AMES 67-707 OA12 O2A UPPER WING (RBGU22)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 1.522 BETA (5) = 10.440

X/CW	Y/BW .299	.364	.427	.534	.673	.780	.887
.965	-.1030						

AMES 87-707 OA12 OBA UPPER WING (RBGU23) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 99.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 15.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -5.560

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1000	-.0890	.1780	1.0100	.9580	.9790	.9130
.050				-.0460	.0310	.0850	.1250
.081			-.1290				
.086		-.0530					
.094	-.0800						
.150				-.1370	-.0730	-.0400	-.0220
.177			-.1520				
.229	-.0870						
.246		-.0910					
.250				-.1800	-.1390	-.1050	-.0690
.362	-.0720						
.400				-.2020	-.1790		-.1250
.402			-.1790				
.497	-.1070						
.550				-.2010	-.1940		
.565			-.1880				
.600							-.1610
.650						-.1790	
.700	-.1530				-.1870		
.725				-.2030			
.750						-.1860	-.1820
.760			-.1840				
.775				-.2050	-.1840		
.808			-.1800				
.834	-.1670						
.850				-.2040	-.1830	-.1840	
.857			-.1910				
.865	-.1620						
.900	-.1480			-.2000			-.1630
.905			-.1840				
.950				-.1920	-.1810	-.1820	
.953			-.1720				
.965	-.0740						

MACH (1) = 2.498 BETA (2) = .420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1520	-.1510	-.0280	.7020	.6990	.7130	.6620
.050				-.1310	-.0720	-.0190	.0110
.081			-.1580				
.086		-.1340					
.094	-.1430						

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AMES 87-707 OA12 02A UPPER WING (RBQU23)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (2) = .420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1650	-.1330	-.1040	-.0890
.177			-.1720				
.229	-.1410						
.246		-.1490					
.250				-.2120	-.1780	-.1500	-.1370
.362	-.1400						
.400				-.2130	-.2040		-.1630
.402			-.1910				
.497	-.1620						
.550				-.2100	-.2040		
.565			-.1970				
.600							-.1870
.650						-.1960	
.700	-.1690				-.2010		
.725				-.2140			
.750						-.2020	-.2000
.763			-.1980				
.775				-.2150	-.2010		
.8[illegible]			-.1930				
.834	-.1920						
.850				-.2120	-.1960	-.1980	
.857			-.2050				
.865	-.1850						
.900	-.1750			-.2020			-.1880
.935			-.1970				
.950				-.1970	-.1910	-.1970	
.953			-.1830				
965	-.1420						

MACH (1) = 2.498 BETA (3) = 6.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.[illegible]	-.1810	-.1900	-.1500	.3090	.4520	.4660	.4130
.[illegible]				-.1970	-.1490	-.1100	-.0900
.[illegible]			-.1860				
.[illegible]		-.1740					
.[illegible]	-.1770						
.153				-.2220	-.1820	-.1550	-.1410
.177			-.1950				
[illegible]33	- 1830						
.[illegible]		-.1900					
.250				-.2240	-.2110	-.1840	-.1760
.362	-.1850						
.400				-.2230	-.2260		-.1910
.402			-.2060				
.497	-.1940						

AMES 87-707 OA12 OBA UPPER WING (RBGU23)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (1) = 2.490 BETA (3) = 8.340

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.350				-.2220	-.2080		
.365			-.2050				
.600							-.2010
.650						-.2010	
.700	-.1940				-.2070		
.725				-.2220			
.750						-.2030	-.1980
.760			-.1970				
.775				-.2220	-.2070		
.808			-.1940				
.834	-.1890						
.850				-.2170	-.2060	-.2030	
.857			-.2080				
.865	-.1770						
.900	-.1700			-.2120			-.2020
.905			-.2090				
.950				-.2030	-.2030	-.2030	
.953			-.2020				
.965	-.1650						

MACH (2) = 3.502 BETA (1) = -5.540

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0410	-.0120	.2960	1.2910	1.2160	.9340	.8960
.050				.0830	.1560	.1460	.1050
.081			-.0440				
.086		-.0120					
.094	-.0290						
.150				-.0340	.0260	.0490	-.0030
.177			-.0740				
.229	-.0310						
.246		-.0370					
.250				-.0800	-.0450	-.0110	-.0480
.362	-.0370						
.400				-.1060	-.0830		-.0680
.402			-.0860				
.497	-.0540						
.550				-.1170	-.0980		
.565			-.0940				
.600							-.0850
.650						-.0810	
.700	-.0780				-.1000		
.725				-.1170			
.750						-.0940	-.0830
.760			-.0940				
.775				-.1170	-.1010		

AMES 87-707 OA12 O2A UPPER WING (RBGUE3)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -5.540

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0920				
.834	-.0830						
.850				-.1140	-.0980	-.0890	
.857			-.1080				
.865	-.0880						
.900	-.0870			-.1110			-.0810
.905			-.1080				
.950				-.1030	-.0950	-.0830	
.953			-.1050				
.965	-.0660						

MACH (2) = 3.502 BETA (2) = .420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0770	-.0740	.0700	.9140	.9020	.9220	.8510
.050				-.0200	.0520	.1060	.1310
.081			-.0900				
.086		-.0730					
.094	-.0760						
.150				-.0840	-.0290	.0040	.0140
.177			-.0930				
.229	-.0780						
.246		-.0810					
.250				-.1130	-.0780	-.0480	-.0400
.362	-.0780						
.400				-.1230	-.1070		-.0640
.402			-.1010				
.497	-.0880						
.550				-.1220	-.1090		
.565			-.1030				
.600							-.0870
.650						-.0950	
.700	-.1000				-.1100		
.725				-.1200			
.750						-.1030	-.0960
.760			-.1020				
.775				-.1210	-.1060		
.808			-.1010				
.834	-.1000						
.850				-.1190	-.1030	-.1020	
.857			-.1120				
.865	-.0960						
.900	-.0980			-.1170			-.0990
.905			-.1150				
.950				-.1140	-.1040	-.1020	
.953			-.1150				

AMES 67-707 OA12 OPA UPPER WING (RBOU23)

SECTION (1)UPPER WING DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = .420

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.965	-.0840						

MACH (2) = 3.502 BETA (3) = 6.320

Y/BW / X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0920	-.1020	-.0590	.5690	.6140	.6370	.5940
.050				-.0880	-.0360	.0150	.0430
.081			-.1030				
.086		-.0980					
.094	-.0930						
.150				-.1130	-.0750	-.0450	-.0320
.177			-.1020				
.229	-.0960						
.246		-.1020					
.250				-.1270	-.1040	-.0800	-.0700
.362	-.0980						
.400				-.1270	-.1200		-.0880
.402			-.1060				
.497	-.1020						
.550				-.1270	-.1090		
.565			-.1050				
.600							-.1050
.650						-.1070	
.700	-.1050				-.1120		
.725				-.1240			
.750						-.1130	-.1020
.760			-.1070				
.775				-.1240	-.1130		
.808			-.1050				
.834	-.1050						
.850				-.1250	-.1130	-.1130	
.857			-.1120				
.865	-.1020						
.900	-.1020			-.1240			-.1070
.905			-.1180				
.950				-.1240	-.1120	-.1130	
.953			-.1170				
.965	-.0980						

AMES 67-707 OA12 OEA LEFT VERTICAL (RBQVD1) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = -.090

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.7980	.7320	.5990	.6770	.5680
.050	.0930	.1140	.0870	.0670	.0780
.150	.2330	.2380	.1540	.1190	.1040
.300	.1770	.1940	.2050	.1460	.1530
.520	.1260	.1380	.1720	.2830	.1940
.650	-.0530	.3560	.4680	.5400	.1430
.775	-.0340	.2970	.4450	.5690	.0810
.900		.0130	.4100	.4980	.0290

MACH (1) = 2.498 ALPHA (2) = 4.960

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.7170	.6540	.5310	.5720	.4630
.050	.0340	.0480	.0490	.0530	.0660
.150	.1780	.1410	.1170	.1080	.1030
.300	.1150	.1330	.1460	.1380	.1450
.520	.0690	.0910	.1260	.2030	.1900
.650	-.0890	.2770	.3830	.3790	.0820
.775	-.0720	.2360	.3720	.5160	.0410
.900		-.0070	.3410	.4350	.0020

MACH (1) = 2.498 ALPHA (3) = 9.970

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.5950	.4890	.3810	.4200	.3300
.050	.0560	.0390	.0170	.0160	.0260
.150	.1340	.1040	.0670	.0650	.0600
.300	.0510	.0650	.0860	.0830	.0960
.520	.0120	.0350	.0690	.1610	.1560
.650	-.1100	.1980	.2920	.3110	.0370
.775	-.0990	.1740	.2780	.3710	-.0040
.900		-.0280	.2570	.3300	-.0500

MACH (1) = 2.498 ALPHA (4) = 14.890

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.5230	.4480	.2850	.3040	.2310
.050	.0770	.0610	.0210	.0170	.0170
.150	.1350	.1210	.0530	.0490	.0420
.300	.0360	.0580	.0770	.0640	.0590
.520	-.0200	.0140	.0650	.1760	.1600
.650	-.1250	.1550	.2290	.2700	.0200
.775	-.1280	.1320	.2200	.2820	-.0260
.900		-.0420	.2110	.2500	-.0700

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AMES 67-707 OA12 OEA LEFT VERTICAL

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (5) = 19.870

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4990	.5730	.2430	.2190	.1540
.050	.0100	.0900	.0280	.0070	.0050
.150	.0770	.1260	.0680	.0320	.0220
.300	-.0390	-.0040	.0480	.0390	.0330
.520	-.1010	-.0500	.0170	.1300	.1290
.650	-.1600	.0750	.1770	.1960	-.0160
.775	-.1720	.0520	.1820	.2090	-.0540
.900		-.0740	.1790	.1860	-.0890

MACH (2) = 3.502 ALPHA (1) = -.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7010	.6760	.5920	.6910	.5830
.050	.0690	.0580	.0540	.0900	.0900
.150	.1370	.0890	.0560	.0700	.0820
.300	.1360	.1470	.0680	.1100	.1100
.520	.0990	.1240	.1050	.1250	.0970
.650	-.0120	.2610	.2380	.1280	.0260
.775	.0170	.2550	.3700	.2590	.0120
.900		.0330	.3670	.3320	.0010

MACH (2) = 3.502 ALPHA (2) = 5.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.050	.6740	.5390	.5040	.5150	.4300
.050	.0020	.0400	.0440	.0640	.0670
.150	.0630	.0710	.0540	.0530	.0530
.300	.0710	.1070	.0750	.0800	.0780
.520	.0450	.0800	.0900	.0920	.0710
.650	-.0340	.2130	.2170	.1130	.0100
.775	-.0310	.2090	.3230	.2320	.0000
.900		.0120	.3100	.3190	-.0120

MACH (2) = 3.502 ALPHA (3) = 10.130

Z/BV	.159	.316	.600	.840	.925
X/CV					
.000	.3880	.3340	.3310	.4220	.3420
.050	.0060	.0510	.0170	.0530	.0570
.150	.0700	.0500	.0370	.0490	.0540
.300	.0240	.0440	.0580	.0750	.0690
.520	.0020	.0280	.0860	.0790	.0540
.650	-.0550	.1140	.0950	.0800	-.0060
.775	-.0580	.1180	.2190	.2440	-.0280
.900		-.0170	.2160	.2800	-.0250

MACH (2) = 3.502 ALPHA (4) = 15.050

Z/BV	.159	.316	.600	.840	.925
X/CV					
.000	.2980	.2150	.2290	.2700	.2170
.050	-.0080	.0340	.0000	.0260	.0350
.150	.0500	.0720	.0280	.0300	.0380
.300	.0170	.0400	.0480	.0520	.0560

AMES 87-707 OA12 02A LEFT VERTICAL (RBQV01)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (4) = 15.050

Z/BV / X/CV	.158	.316	.600	.840	.925
.520	-.0370	.0090	.0500	.0670	.0460
.650	-.0750	.0790	.1450	.0930	-.0080
.775	-.0820	.0900	.1590	.2260	-.0150
.900		-.0250	.1560	.2050	-.0210

MACH (2) = 3.502 ALPHA (5) = 20.020

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2000	.3400	.1710	.1640	.1210
.050	-.0510	.0280	.0200	.0230	.0160
.150	-.0270	.0470	.0440	.0260	.0180
.300	-.0400	-.0260	.0530	.0320	.0260
.520	-.0660	-.0560	.0340	.0830	.0850
.650	-.0920	-.0480	.1290	.1350	.0200
.775	-.1000	-.0300	.1580	.1500	-.0140
.900		-.0470	.1690	.1440	-.0340

AMES 87-707 OA12 O2A LEFT VERTICAL (RB9V02) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -3.300

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.4350	.7230	.5560	.6560	.5740
.050	.2680	.3540	.3100	.2670	.2570
.150	.2470	.3440	.3230	.3190	.3040
.300	.1960	.2400	.2810	.3240	.3270
.520	.1460	.1780	.2810	.3760	.3920
.650	-.0370	.4370	.5580	.5020	.1660
.775	-.0110	.3780	.5330	.6790	.1450
.900		.0250	.4920	.5840	.0740

MACH (1) = 2.498 BETA (2) = 3.060

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.4630	.7760	.6200	.6720	.5460
.050	.1640	.0000	-.0130	.0040	.0140
.150	.1600	.0400	.0370	.0320	.0670
.300	.1200	.1500	.0530	.0810	.0910
.520	.0680	.0950	.1670	.1290	.0990
.650	-.0530	.2410	.3470	.1720	.0270
.775	-.0430	.1970	.3630	.3880	.0230
.900		-.0070	.3420	.4420	-.0050

MACH (2) = 3.502 BETA (1) = -3.410

Z/B' / X/CV	.158	.316	.600	.840	.925
.000	.4580	.6520	.5630	.6780	.5900
.050	.1860	.1580	.1040	.1380	.1440
.150	.1670	.1940	.1280	.1270	.1450
.300	.1470	.2350	.1600	.1690	.1820
.520	.1150	.1820	.1880	.1810	.1710
.650	.0000	.4090	.4690	.2340	.1110
.775	.0240	.3670	.4490	.4470	.0920
.900		.0510	.4460	.5070	.0750

MACH (2) = 3.502 BETA (2) = 3.190

Z/BV / X/CV	158	.316	.600	.840	.925
.000	.4680	.6880	.6030	.6850	.5580
.050	.0500	-.0040	.0140	.0470	.0420
.150	.0800	.0230	.0090	.0270	.0290
.300	.0660	.0340	.0150	.0550	.0550
.520	.0370	.0520	.0490	.0630	.0440
.650	-.0260	.1490	.0520	.0790	-.0120
.775	-.0130	.1730	.1950	.1350	-.0450
.900		.0080	.2860	.1960	-.0510

AMES 87-707 OA12 OBA LEFT VERTICAL (RBQV03) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.2010	.2540	.2820	.3500	.3280
.050	.1360	.2840	.3340	.3430	.3360
.150	.1430	.2240	.2770	.3000	.3010
.300	.0700	.1500	.2290	.2550	.2810
.520	.0190	.1030	.1660	.3550	.3280
.650	-.1130	.2960	.5010	.5140	.1680
.775	-.1050	.3070	.4540	.5410	.0840
.900		.0030	.4430	.4900	.0160

MACH (1) = 2.498 BETA (2) = -3.340

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.1980	.3500	.3600	.4070	.3440
.050	.0220	.2020	.2200	.2080	.2130
.150	.0920	.1730	.2090	.2120	.2110
.300	.0460	.1150	.1630	.1980	.2290
.520	.0060	.0681	.1650	.2450	.2090
.650	-.1150	.2330	.3810	.3100	.0700
.775	-.1150	.2420	.3820	.4890	.0530
.900		-.0160	.3640	.4220	-.0080

MACH (1) = 2.498 BETA (3) = 3.020

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.2270	.3890	.4080	.4150	.3110
.050	.1630	-.0190	-.0470	-.0610	-.0520
.150	.1470	.0540	-.0260	-.0390	-.0060
.300	.1030	.0200	-.0220	.0090	.0290
.520	.0460	-.0040	.0310	.0400	.0030
.650	-.0980	.0500	.1930	.1160	-.0530
.775	-.0760	.0150	.2060	.2910	-.0550
.900		-.0560	.1780	.2590	-.0750

MACH (1) = 2.498 BETA (4) = 6.200

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.1980	.3020	.3800	.3650	.2550
.050	.1290	-.0510	-.1130	-.0900	-.0450
.150	.1050	.0050	-.0990	-.0700	-.0470
.300	.0460	-.0300	-.0940	-.0660	-.0410
.520	.0130	-.0550	-.0540	-.0510	-.0720
.650	-.1010	-.0070	.0560	-.0310	-.1030
.775	-.0930	-.0120	.1090	.0860	-.1120
.900		-.0680	.1170	.1310	-.1190

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQV03)

AMES 87-707 OA12 OBA LEFT VERTICAL

DEPENDENT VARIABLE CP

SECTION (1)LEFT VERTICAL

MACH (2) = 3.502 BETA (1) = -6.740

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0960	.2370	.3000	.3860	.3450
.050	.1030	.1820	.2260	.2120	.2050
.150	.0860	.1780	.2170	.2160	.2070
.300	.0370	.1350	.1910	.2000	.2110
.520	.0040	.1040	.1420	.2440	.2330
.650	-.0620	.2300	.3690	.3810	.1340
.775	-.0630	.2410	.3450	.4590	.0920
.900		.0150	.3480	.4190	.0410

MACH (2) = 3.502 BETA (2) = -3.460

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0960	.2650	.3420	.4250	.3560
.050	-.0110	.0990	.0910	.1030	.1100
.150	.0340	.1030	.1260	.1100	.1100
.300	.0210	.0790	.1320	.1400	.1360
.520	-.0060	.0560	.1340	.1600	.1310
.650	-.0630	.1400	.2290	.2050	.0440
.775	-.0690	.1540	.2990	.4040	.0440
.900		-.0040	.2900	.3710	.0170

MACH (2) = 3.502 BETA (3) = 3.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
000	.1100	.2990	.3790	.4300	.3320
.050	.0180	-.0100	-.0280	.0030	.0030
.150	.0470	.0130	-.0240	-.0050	-.0010
.300	.0510	.0000	-.0090	.0150	.0150
.520	.0270	-.0090	.0100	.0200	.0070
.650	-.0460	.0110	.0370	.0230	-.0350
.775	-.0450	.0060	.1290	.0730	-.0480
.900		-.0340	.1290	.1320	-.0550

MACH (2) = 3.502 BETA (4) = 6.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0530	.2780	.3750	.3940	.2900
.050	.0100	-.0360	-.0570	-.0280	-.0270
.150	.0190	-.0390	-.0470	-.0330	-.0250
.300	.0000	-.0290	-.0330	-.0170	-.0120
.520	-.0150	-.0350	-.0160	-.0140	-.0240
.650	-.0590	-.0130	.0010	-.0130	-.0460
.775	-.0570	-.0120	.0380	.0070	-.0670
.900		-.0440	.0430	.0570	-.0740

AMES N7-707 OA12 C2A LEFT VERTICAL (RBQV04) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3150	.0640	.0250	.1410	.1440
.050	-.0870	-.1720	.1840	.2400	.2300
.150	-.0870	-.1510	.1280	.1920	.1950
.300	-.1130	-.1160	.0980	.1450	.1470
.520	-.1470	-.1050	.0600	.2210	.2490
.650	-.1770	-.0320	.3250	.3600	.0700
.775	-.1740	-.0490	.2880	.3770	.0000
.900		-.0730	.2660	.3370	-.0520

MACH (1) = 2.498 BETA (2) = -3.310

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2450	.0970	.2460	.2470	.1970
.050	-.1510	-.1800	.1950	.1770	.1700
.150	-.1130	-.1650	.1420	.1510	.1470
.300	-.1140	-.1370	.0990	.1140	.1240
.520	-.1590	-.1250	.0580	.1520	.1280
.650	-.1780	-.0620	.3230	.2300	.0100
.775	-.1640	-.0880	.3080	.3540	-.0140
.900		-.0840	.3040	.3100	-.0620

MACH (1) = 2.498 BETA (3) = 3.050

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3030	-.0290	.3100	.2370	.1430
.050	.2140	.0860	-.0970	-.0900	-.0800
.150	.2340	.0890	-.0940	-.0900	-.0810
.300	.0680	.0600	-.0650	-.0830	-.0740
.520	-.0120	.0050	-.0070	.0000	-.0220
.650	-.1210	.1060	.1420	.0690	-.0560
.775	-.1170	.0990	.1210	.1340	-.0750
.900		-.0590	.1150	.1530	-.1070

MACH (1) = 2.498 BETA (4) = 6.240

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3660	.1540	.1480	.1580	.0740
.050	.1850	.1070	-.1240	-.1330	-.0590
.150	.2120	.0790	-.1150	-.1330	-.1050
.300	.0360	.0210	-.0900	-.1190	-.0960
.520	-.0140	-.0020	-.0700	-.0970	-.0950
.650	-.1310	.1150	-.0580	-.0610	-.1150
.775	-.1370	.1150	-.0670	.0160	-.1280
.900		-.0120	-.1770	.0410	-.1520

AMES 8'-707 C412 Q2A LEFT VERTICAL (RBQVD4)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -3.710

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.2160	.0570	-.0140	.0910	.1150
.050	-.0520	-.0720	.1240	.2140	.2010
.150	-.0350	-.0600	.1000	.1750	.1810
.300	-.0550	-.0470	.0820	.1400	.1490
.520	-.0660	-.0510	.0480	.1490	.2060
.650	-.0920	-.0200	.1970	.2680	.0770
.775	-.0960	-.0240	.2050	.2980	.0170
.900		-.0350	.2060	.2850	-.0170

MACH (2) = 3.502 BETA (2) = -3.430

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.1620	.0360	.2040	.2050	.1660
.050	-.0690	-.0680	.1640	.1320	.1280
.150	-.0590	-.0870	.1300	.1270	.1200
.300	-.0420	-.0790	.0950	.1070	.1000
.520	-.0700	-.0700	.0440	.1150	.1120
.650	-.0940	-.0550	.2210	.2360	.0420
.775	-.0940	-.0520	.1870	.2770	.0010
.900		-.0380	.1450	.2690	-.0230

MACH (2) = 3.502 BETA (3) = 3.160

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.2040	.0430	.2760	.2010	.1310
.050	-.0240	.0290	-.0520	-.0450	-.0360
.150	.0600	.0670	-.0530	-.0460	-.0310
.300	-.0090	.0490	-.0410	-.0300	-.0200
.520	-.0530	.0170	-.0250	-.0150	-.0270
.650	-.0860	.0720	-.0100	.0130	-.0380
.775	-.0950	.0710	.0000	.0560	-.0480
.900		-.0360	.0190	.0660	-.0610

MACH (2) = 3.502 BETA (4) = 6.470

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.2350	.0830	.0760	.1240	.0780
.050	-.0170	.0240	-.0680	-.0630	-.0530
.150	.0360	.0690	-.0760	-.0600	-.0560
.300	-.0180	.0310	-.0710	-.0600	-.0490
.520	-.0620	.0050	-.0710	-.0420	-.0460
.650	-.0920	.0640	-.0600	-.0320	-.0600
.775	-.1000	.0610	-.0510	-.0230	-.0620
.900		-.0430	-.0390	-.0210	-.0790

AMES 87-707 OA12 C2A LEFT VERTICAL (RBQVD5) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.3790	.5720	.4760	.5980	.5630
.050	.3840	.5090	.4660	.4670	.4610
.150	.3160	.4080	.4090	.4290	.4190
.300	.2230	.2900	.3540	.3670	.3490
.520	.1670	.2310	.2840	.4020	.3510
.650	-.0400	.1080	.1640	.1700	.0510
.775	-.0340	.0620	.1660	.2080	.0350
.900		-.0340	.1580	.1910	.0610

MACH (1) = 2.498 BETA (2) = -3.300

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.4410	.7260	.5590	.6530	.5730
.050	.2570	.3350	.3020	.2550	.2470
.150	.2410	.3460	.3220	.3170	.2980
.300	.1310	.2420	.2810	.2850	.2920
.520	.1450	.1890	.2640	.3170	.3120
.650	-.0340	.0780	.0970	.1160	.0210
.775	-.0450	.0300	.1050	.1460	.0210
.900		-.0280	.0980	.1310	.0360

MACH (1) = 2.498 BETA (3) = -.160

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.7940	.7280	.6010	.6720	.5680
.050	.0970	.1380	.0870	.0670	.0760
.150	.2340	.2150	.1590	.1300	.1150
.300	.1810	.1990	.2160	.1550	.1860
.520	.1260	.1510	.2110	.2500	.1760
.650	- 0490	.0430	.0940	.1050	.0260
.775	-.0610	.0010	.0670	.1160	.0070
.900		-.0220	.0580	.0950	.0180

MACH (1) = 2.498 BETA (4) = 3.060

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.4430	.7720	.6150	.6680	.5440
.050	.1620	-.0070	-.0170	-.0070	.0000
.150	.1540	.0360	.0350	.0190	.0200
.300	.1130	.1540	.0460	.0400	.0560
.520	.0600	.1060	.1560	.0610	.0710
.650	-.0550	-.0010	.0390	-.0150	-.0810
.775	-.0690	-.0340	.0200	.0200	-.0650
.900		-.0290	.0100	.0300	-.0410

AMES 87-707 OA12 OBA LEFT VERTICAL (RBQV05)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 8.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3170	.6860	.5950	.6430	.5090
.050	-.0040	-.0850	-.0940	-.0590	-.0640
.150	.0760	-.0560	-.0740	-.0380	-.0270
.300	.0320	-.0480	-.0430	-.0360	.0200
.520	-.0140	-.0080	-.0240	-.0040	.0570
.650	-.0970	-.0490	-.0710	-.0770	-.0990
.775	-.1080	-.0620	-.0620	-.0690	-.1370
.900		-.0490	-.0380	-.0760	-.1280

MACH (2) = 3.501 BETA (1) = -8.670

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2530	.5610	.5320	.6640	.6030
.050	.2520	.2930	.2010	.2010	.2070
.150	.2200	.3220	.2670	.2140	.2020
.300	.1910	.3000	.3000	.2330	.2140
.520	.1370	.2440	.2650	.2720	.2020
.650	.0040	.1070	.1830	.1860	.0740
.775	-.0040	.0660	.1690	.2150	.0670
.900		-.0130	.1550	.1960	.0750

MACH (2) = 3.501 BETA (2) = -3.420

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4550	.6510	.5650	.6780	.5930
.050	.1960	.1660	.1060	.1340	.1360
.150	.1730	.2010	.1390	.1290	.1280
.300	.1540	.2420	.1670	.1240	.1290
.520	.1200	.2030	.2030	.1460	.1380
.650	.0060	.0930	.1320	.0850	.0210
.775	-.0090	.0560	.1310	.0940	.0050
.900		-.0010	.1160	.1040	.0100

MACH (2) = 3.501 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6970	.6770	.5930	.6880	.5860
.050	.0680	.0530	.0530	.0730	.0750
.150	.1360	.0910	.0560	.0680	.0680
.300	.1340	.1310	.0680	.0580	.0780
.520	.1040	.1330	.0930	.0810	.0860
.650	-.0110	.0630	.0690	.0180	-.0140
.775	-.0240	.0340	.0750	.0250	-.0360
.900		.0010	.0730	.0230	-.0270

MACH (2) = 3.501 BETA (4) = 3.180

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4780	.6940	.6080	.6880	.5700
.050	.0500	-.0060	.0120	.0390	.0350
.150	.0820	.0230	.0100	.0290	.0320
.300	.0700	.0310	.0160	.0190	.0320

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A LEFT VERTICAL (RB0V05)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.180

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0420	.0710	.0290	.0360	.0560
.650	-.0240	.0200	.0060	-.0130	-.0340
.775	-.0310	-.0050	.0060	-.0120	-.0580
.900		-.0120	.0160	-.0180	-.0540

MACH (2) = 3.501 BETA (5) = 6.530

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2280	.6400	.5990	.6740	.5450
.050	-.0050	-.0450	-.0230	-.0050	-.0020
.150	.0110	-.0220	-.0240	-.0060	-.0020
.300	.0000	-.0210	-.0240	-.0160	-.0020
.520	-.0180	-.0160	-.0140	-.0020	.0290
.650	-.0600	-.0440	-.0460	-.0410	-.0410
.775	-.0700	-.0540	-.0530	-.0380	-.0760
.900		-.0300	-.0540	-.0500	-.0720

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQVD6) (16 MAY 73)

AMES 87-707 OA12 O2A LEFT VERTICAL

REFERENCE DATA

BREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.1940	.2560	.2850	.3480	.3260
.050	.1330	.2850	.3290	.3420	.3360
.150	.1390	.2220	.2820	.3050	.3010
.300	.0700	.1490	.2380	.2510	.2400
.520	.0190	.1110	.1830	.2770	.2410
.650	-.1140	.0250	.0890	.0940	.0040
.775	-.1290	-.0030	.0810	.1380	.0020
.900		-.0580	.0770	.1240	.0200

MACH (1) = 2.498 BETA (2) = -3.340

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.2090	.3560	.3670	.4140	.3510
.050	.0120	.1970	.2220	.2160	.2180
.150	.0930	.1730	.2130	.2210	.2190
.300	.0470	.1180	.1720	.1850	.1800
.520	.0080	.0810	.1570	.2040	.1860
.650	-.1070	.0050	.0260	.0460	-.0250
.775	-.1250	-.0200	.0300	.0720	-.0310
.900		-.0540	.0270	.0590	-.0270

MACH (1) = 2.498 BETA (3) = -.160

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.6050	.4950	.3900	.4240	.3390
.050	.0570	.0490	.0210	.0170	.0270
.150	.1360	.1060	.0730	.0770	.0780
.300	.0540	.0690	.1000	.0950	.1290
.520	.0160	.0430	.0980	.1340	.1270
.650	-.1040	-.0220	.0130	.0150	-.0500
.775	-.1170	-.0530	-.0050	.0320	-.0610
.900		-.0520	-.0120	.0160	-.0540

MACH (1) = 2.498 BETA (4) = 3.020

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.2380	.3850	.4140	.4240	.3210
.050	.1730	-.0140	-.0480	-.0670	-.0640
.150	.1540	.0540	-.0220	-.0340	-.0260
.300	.1060	.0190	-.0130	-.0080	.0180
.520	.0470	.0100	.0480	.0180	.0250
.650	-.0960	-.0430	-.0310	-.0500	-.1000
.775	-.1150	-.0610	-.0510	-.0310	-.1000
.900		-.0650	-.0670	-.0330	-.0860

AMES 87-70? CA12 CEA LEFT VERTICAL (RBQV06)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.210

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1980	.3060	.3640	.3670	.2570
.050	.1340	-.0050	-.1120	- 1280	-.1330
.150	.1080	.0000	-.0670	-.1060	-.1030
.300	.0480	-.0250	-.0920	-.0880	-.0650
.520	.0110	-.0480	- 0670	-.0770	-.0420
.650	-.1010	-.0950	-.0870	-.1100	-.1430
.775	-.1220	-.1000	-.1020	-.1060	-.1520
.900		-.0720	-.0930	-.1070	-.1470

MACH (2) = 3.501 BETA (1) = -6.750

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0740	.2360	.3010	.3600	.3390
.050	.1110	.1690	.2340	.2250	.2170
.150	.0900	.1000	.1960	.2280	.2180
.300	.0380	.1490	.1960	.2070	.1980
.520	.0080	.1180	.1540	.2270	.1930
.650	-.0570	.0730	.0640	.1070	.0530
.775	-.0720	.0170	.0850	.1270	.0370
.900		-.0270	.0760	.1160	.0420

MACH (2) = 3.501 BETA (2) = -3.457

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0880	.2540	.3410	.4230	.3570
.050	-.0050	.1040	.0950	.0970	.1040
.150	.0360	.1060	.1300	.1170	.1120
.300	.0240	.0840	.1370	.1240	.1170
.520	-.0020	.0640	.1220	.1490	.1230
.650	-.0610	.0130	.0540	.0680	.0190
.775	-.0760	-.0090	.0480	.0800	-.0010
.900		-.0340	.0470	.0700	-.0010

MACH (2) = 3.501 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3850	.4040	.3510	.4210	.3420
.050	.0110	.0110	.0150	.0310	.0370
.150	.0790	.0580	.0380	.0370	.0380
.300	.0260	.0460	.0520	.0340	.0610
.520	.0010	.0320	.0640	.0540	.0570
.650	-.0580	-.0190	.0060	.0070	-.0270
.775	-.0670	-.0350	.0020	.0150	-.0400
.900		-.0360	.0030	.0150	-.0380

MACH (2) = 3.501 BETA (4) = 3.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1040	.3010	.3840	.4330	.3320
.050	.0190	-.0110	-.0270	-.0030	-.0040
.150	.0490	.0140	-.0210	-.0030	-.0010
.300	.0530	.0030	-.0030	-.0100	.0130

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQVD6)

AMES 87-707 OA12 O2A LEFT VERTICAL

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0290	-.0020	.0070	.0020	.0130
.630	-.0460	-.0330	-.0150	-.0300	-.0550
.775	-.0630	-.0400	-.0200	-.0310	-.0720
.900		-.0390	-.0210	-.0330	-.0690

MACH (2) = 3.501 BETA (5) = 6.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0380	.2660	.3640	.3870	.2800
.050	.0070	-.0400	-.0600	-.0470	-.0500
.150	.0160	-.0450	-.0500	-.0470	-.0450
.300	-.0030	-.0380	-.0400	-.0510	-.0390
.520	-.0190	-.0350	-.0360	-.0430	-.0320
.650	-.0630	-.0550	-.0510	-.0630	-.0760
.775	-.0730	-.0640	-.0580	-.0640	-.0920
.900		-.0470	-.0580	-.0680	-.0960

AMES 87-707 OA12 C2A LEFT VERTICAL (RB@V07) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3230	.0860	.0290	.1380	.1450
.050	-.0860	-.1730	.1770	.2420	.2280
.150	-.0850	-.1480	.1280	.1960	.1940
.300	-.1100	-.1140	.0950	.1490	.1440
.520	-.1480	-.1030	.0650	.1790	.1590
.650	-.1760	-.1390	.0060	.0250	-.0390
.775	-.1780	-.1570	-.0030	.0560	-.0410
.900		-.0800	-.0080	.0440	-.0430

MACH (1) = 2.498 BETA (2) = -3.320

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2420	.1010	.2490	.2470	.1970
.050	-.1500	-.1760	.1930	.1820	.1720
.150	-.1090	-.1610	.1440	.1590	.1520
.300	-.1100	-.1320	.1030	.1170	.1090
.520	-.1560	-.1210	.0920	.1280	.1120
.650	-.1770	-.1610	.0070	.0030	-.0590
.775	-.1650	-.1730	-.0130	.0210	-.0720
.900		-.0840	-.0200	.0130	-.0620

MACH (1) = 2.498 BETA (3) = -.150

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5030	.5710	.2480	.2220	.1570
.050	.0050	.0850	.0260	.0090	.0090
.150	.0750	.1280	.0690	.0420	.0360
.300	-.0380	-.0030	.0530	.0460	.0570
.520	-.1010	-.0470	.0430	.0810	.1130
.650	-.1620	-.1230	-.0320	-.0330	-.0800
.775	-.1720	-.1440	-.0460	-.0200	-.0950
.900		-.0900	-.0540	-.0300	-.0880

MACH (1) = 2.498 BETA (4) = 3.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3110	-.0210	.3190	.2450	.1550
.050	.2150	.0860	-.0980	-.0950	-.0950
.150	.2320	.0910	-.0940	-.0800	-.0720
.300	.0880	.0610	-.0530	-.0740	-.0490
.520	-.0120	.0110	-.0010	-.0380	-.0360
.650	-.1200	-.0730	-.0770	-.0840	-.1200
.775	-.1330	-.1070	-.0800	-.0630	-.1220
.900		-.0860	-.0850	-.0600	-.1170

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 OEA LEFT VERTICAL (ORIGIN)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.499 BETA (5) = 6.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3690	.0750	.1420	.1590	.0760
.050	.1840	.1190	-.1260	-.1290	-.1270
.150	.2120	.0880	-.1110	-.1280	-.1260
.300	.0800	.0370	-.0840	-.1280	-.0970
.520	-.0200	.0070	-.0900	-.1290	-.0940
.650	-.1370	-.0610	-.1200	-.1340	-.1460
.775	-.1540	-.0870	-.1260	-.1080	-.1500
.900		-.0860	-.1260	-.1040	-.1490

MACH (2) = 3.501 BETA (1) = -6.710

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2270	.0760	.0000	.0940	.1220
.050	-.0480	-.0700	.1280	.2090	.1970
.150	-.0280	-.0520	.1040	.1780	.1800
.300	-.0500	-.0420	.0800	.1370	.1500
.520	-.0620	-.0470	.0500	.1400	.1710
.650	-.0850	-.0730	.0130	.0490	.0160
.775	-.0950	-.0820	.0070	.0580	.0020
.900		-.0370	.0060	.0530	.0010

MACH (2) = 3.501 BETA (2) = -3.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1870	.0470	.2010	.2010	.1620
.050	-.0680	-.0900	.1610	.1360	.1260
.150	-.0560	-.0840	.1260	.1330	.1240
.300	-.0440	-.0810	.0970	.1130	.1050
.520	-.0710	-.0720	.0490	.1260	.0980
.650	-.0940	-.0820	-.0010	.0400	.0070
.775	-.0990	-.0870	-.0130	.0470	-.0170
.900		-.0400	-.0170	.0380	-.0190

MACH (2) = 3.501 BETA (3) = -.150

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1900	.3430	.1700	.1600	.1180
.050	-.0490	.0230	.0190	-.0050	-.0080
.150	-.0250	.0430	.0410	.0150	.0100
.300	-.0350	-.0220	.0430	.0240	.0270
.520	-.0640	-.0560	.0310	.0480	.0620
.650	-.0920	-.0900	-.0090	-.0060	-.0350
.775	-.0970	-.0970	-.0170	-.0010	-.0380
.900		-.0470	-.0260	-.0060	-.0400

MACH (2) = 3.501 BETA (4) = 3.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2200	.0560	.2680	.2010	.1320
.050	-.0220	.0420	-.0520	-.0560	-.0560
.150	.0620	.0720	-.0540	-.0500	-.0500
.300	-.0140	.0480	-.0350	-.0450	-.0340

AMES 87-707 OA12 02A LEFT VERTICAL (RB3V07)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0550	.0140	-.0390	-.0370	-.0310
.650	-.0870	-.0450	-.0530	-.0550	-.0710
.775	-.0960	-.0630	-.0570	-.0520	-.0800
.900		-.0490	-.0580	-.0540	-.0830

MACH (2) = 3.501 BETA (5) = 6.470

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2350	.0880	.0770	.1200	.0770
.050	-.0220	.0180	-.0740	-.0800	-.0770
.150	.0260	.0550	-.0830	-.0730	-.0760
.300	-.0230	.0280	-.0770	-.0700	-.0670
.520	-.0660	.0010	-.0800	-.0640	-.0650
.650	-.0950	-.0490	-.0810	-.0700	-.0820
.775	-.1050	-.0680	-.0800	-.0730	-.0800
.900		-.0540	-.0800	-.0770	-.0870

AMES 87-707 OA12 C2A LEFT VERTICAL (RBQVD8) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.3680	.5690	.4770	.6000	.5560
.050	.3770	.5070	.4620	.4670	.4610
.150	.3170	.4600	.4100	.4260	.4160
.300	.2210	.3870	.3530	.4030	.4260
.520	.1660	.2150	.2750	.4830	.5160
.650	-.0490	.4150	.6730	.6570	.2660
.775	.0000	.4420	.5760	.7380	.1900
.900		.1330	.5690	.6420	.0930

MACH (1) = 2.498 BETA (2) = -3.300

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.4360	.7240	.5570	.6550	.5700
.050	.2580	.3360	.3030	.2580	.2490
.150	.2410	.3420	.3020	.3140	.2980
.300	.1910	.2410	.2920	.3260	.3030
.520	.1400	.1780	.2890	.3970	.4320
.650	- 0470	.4510	.5790	.5000	.1780
.775	-.0170	.3770	.5250	.6570	.1430
.900		.0130	.4800	.5740	.0760

MACH (1) = 2.498 BETA (3) = -.160

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.7970	.7500	.9000	.6720	.5680
.050	.0960	.1370	.0910	.0680	.0790
.150	.2360	.2920	.1590	.1250	.1100
.300	.1790	.1990	.2120	.1500	.1580
.520	.1210	.1420	.1700	.3050	.1990
.650	-.0590	.3670	.4900	.5460	.1530
.775	-.0210	.3080	.4480	.5610	.0840
.900		.0030	.4100	.4970	.0300

MACH (1) = 2.498 BETA (4) = 3.060

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.4630	.7680	.6110	.6640	.5400
.050	.1610	.0020	-.0230	.0090	.0170
.150	.1570	.0370	.0310	.0410	.0560
.300	.1110	.1480	.0610	.0840	.0910
.520	.0590	.0910	.1590	.1540	.0990
.650	-.0630	.2440	.3590	.1670	.0740
.775	-.0400	.1930	.3660	.3740	.0340
.900		-.0270	.3410	.4270	-.0110

AMES 87-707 OA12 O2A LEFT VERTICAL (RBQV08)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3230	.6760	.5850	.6300	.4980
.050	-.0100	-.0770	-.0980	-.0450	-.0470
.150	.0720	-.0560	-.0750	-.0030	-.0130
.300	.0290	-.0510	-.0210	.0050	.0170
.520	-.0130	-.0330	.0060	.0130	.0160
.650	-.1020	.1690	.0410	.1030	-.0540
.775	-.0940	.1120	.1930	.1650	-.0910
.900		-.0550	.2540	.1740	-.0990

MACH (2) = 3.501 BETA (1) = -6.670

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2410	.5580	.5260	.6620	.5940
.050	.2500	.2920	.2050	.2040	.2100
.150	.2180	.3220	.2640	.2100	.1900
.300	.1690	.2990	.2970	.2390	.2450
.520	.1350	.2240	.2570	.3260	.3050
.650	.0020	.4560	.5510	.6140	.2390
.775	.0290	.4380	.5270	.6780	.1740
.900		.0670	.5120	.6500	.1280

MACH (2) = 3.501 BETA (2) = -3.420

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4270	.6430	.5530	.6690	.5820
.050	.1930	.1610	.1050	.1220	.1280
.150	.1690	.1960	.1320	.1110	.1200
.300	.1470	.2360	.1440	.1510	.1580
.520	.0130	.1810	.1750	.1690	.1590
.650	-.0030	.4120	.4550	.2250	.1090
.775	.0240	.3760	.4360	.4320	.0920
.900		.0430	.4320	.4910	.0770

MACH (2) = 3.501 BETA (3) = -.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7240	.5720	.5870	.6840	.5800
.050	.0630	.0560	.0480	.0910	.0900
.150	.1320	.0890	.0490	.0720	.0790
.300	.1310	.1330	.0690	.1110	.1080
.520	.0950	.1220	.1080	.1420	.1020
.650	-.0160	.2610	.2560	.1390	.0320
.775	.0130	.2580	.3700	.2540	.0130
.900		.0190	.3650	.3230	-.0010

MACH (2) = 3.501 BETA (4) = 3.190

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4510	.6860	.6030	.6830	.5300
.050	.0570	-.0020	.0140	.0470	.0470
.150	.0880	.0250	.0080	.0300	.0320
.300	.0650	.0320	.0190	.0590	.0580

AMES 67-707 OA12 O2A LEFT VERTICAL (RBQV08)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.190

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0330	.0530	.0510	.0670	.0470
.630	-.0280	.1520	.0610	.0810	-.0070
.775	-.0080	.1770	.2030	.1410	-.0430
.900		.0000	.2870	.2000	-.0440

MACH (2) = 3.501 BETA (5) = 6.530

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2270	.6380	.5950	.6740	.5450
.050	-.0040	-.0410	-.0240	.0090	.0100
.150	.0090	-.0220	-.0250	-.0080	-.0080
.300	-.0030	-.0230	-.0210	-.0060	-.0050
.520	-.0250	-.0230	.0020	.0100	.0010
.650	-.0620	-.0010	.0230	.0230	-.0340
.775	-.0550	.0040	.0700	.0910	-.0660
.900		-.0390	.1110	.1320	-.0720

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 O2A LEFT VERTICAL (RBQV09) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2040	.2590	.2880	.3560	.3310
.050	.1400	.2660	.3290	.3480	.3470
.150	.1460	.2260	.2840	.3100	.3120
.300	.0750	.1520	.2400	.2660	.2870
.520	.0210	.1080	.1750	.3620	.3370
.650	-.1100	.2970	.5150	.5220	.1850
.775	-.1050	.3090	.4570	.5470	.0970
.900		.0010	.4480	.4950	.0320

MACH (1) = 2.498 BETA (2) = -3.340

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1570	.3560	.3640	.4120	.3450
.050	.0180	.2020	.2210	.2230	.2250
.150	.0980	.1780	.2120	.2250	.2250
.300	.0500	.1190	.1780	.2150	.2430
.520	.0110	.0740	.1640	.2650	.2220
.650	-.1090	.2400	.3920	.3230	.0850
.775	-.1060	.2490	.3950	.4950	.0560
.900		-.0210	.3720	.4330	.0050

MACH (1) = 2.498 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6010	.4970	.3880	.4270	.3390
.050	.0560	.0460	.0190	.0270	.0370
.150	.1330	.1010	.0720	.0740	.0730
.300	.0540	.0680	.1000	.0970	.1060
.520	.0130	.0370	.0990	.1790	.1630
.650	-.1080	.2060	.3120	.3090	.0490
.775	-.0960	.1830	.2920	.3850	.0100
.900		-.0400	.2700	.3380	-.0360

MACH (1) = 2.498 BETA (4) = 3.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2380	.3800	.4130	.4170	.3120
.050	.1650	-.0170	-.0530	-.0480	-.0370
.150	.1460	.0500	-.0240	-.0250	.0110
.300	.1030	.0180	-.0100	.0210	.0330
.520	.0400	-.0070	.0430	.0520	.0150
.650	-.1020	.0480	.2050	.1290	-.0370
.775	-.0730	.0130	.2190	.2940	-.0550
.900		-.0730	.1850	.2710	-.0710

AMES 87-707 OA12 OEA LEFT VERTICAL (RBQV09)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 8.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1850	.2960	.3730	.3600	.2310
.050	.1260	-.0560	-.1190	-.0800	-.0400
.150	.0970	.0020	-.1000	-.0650	-.0410
.300	.0420	-.0330	-.0870	-.0600	-.0340
.520	.0050	-.0590	-.0500	-.0460	-.0630
.650	-.1060	-.0110	.0580	-.0240	-.0930
775	-.0880	-.0110	.1100	.0930	-.1210
.900		-.0860	.1200	.1350	-.1240

MACH (2) = 3.501 BETA (1) = -6.750

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0650	.2240	.2920	.3730	.3260
.050	.1020	.1840	.2280	.2290	.2220
.150	.0860	.1780	.2200	.2290	.2220
.300	.0350	.1380	.1990	.2070	.2110
.520	.0040	.1020	.1540	.2540	.2450
.650	-.0630	.2330	.3780	.3960	.1520
.775	-.0650	.2450	.3530	.4660	.0880
.900		.0090	.3530	.4250	.0450

MACH (2) = 3.501 BETA (2) = -3.450

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0860	.2570	.3400	.4230	.3550
.050	-.0070	.1040	.0960	.1060	.1090
.150	.0350	.1070	.1310	.1150	.1140
.300	.0220	.0810	.1350	.1420	.1390
.520	-.0040	.0560	.1390	.1690	.1400
.650	-.0540	.1450	.2470	.2130	.0550
.775	-.0690	.1610	.3030	.4050	.0460
.900		-.0090	.2920	.3740	.0230

MACH (2) = 3.501 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3720	.4000	.3490	.4190	.3410
.050	.0110	.0160	.0160	.0440	.0520
.150	.0790	.0600	.0410	.0470	.0500
.300	.0260	.0490	.0540	.0710	.0660
.520	.0040	.0310	.0850	.0770	.0500
.650	-.0550	.1180	.0910	.0780	-.0080
.775	-.0560	.1210	.2170	.2390	-.0310
.900		-.0230	.2070	.2760	-.0290

MACH (2) = 3.501 BETA (4) = 3.190

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1050	.2930	.3760	.4280	.3300
.050	.0190	-.0120	-.0330	.0030	.0060
.150	.0440	.0130	-.0270	-.0020	.0040
.300	.0470	-.0020	-.0030	.0190	.0200

AMES 87-707 OA12 02A LEFT VERTICAL (RBQV09)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0250	-.0110	.0130	.0230	.0090
.650	-.0480	.0100	.0420	.0290	-.0330
.775	-.0460	.0020	.1330	.0770	-.0570
.900		-.0480	.1300	.1340	-.0600

MACH (2) = 3.501 BETA (5) = 6.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0480	.2700	.3670	.3900	.2810
.050	.0020	-.0420	-.0650	-.0400	-.0400
.150	.0110	-.0460	-.0540	-.0440	-.0340
.300	-.0050	-.0400	-.0450	-.0280	-.0240
.520	-.0250	-.0430	-.0270	-.0250	-.0370
.650	-.0690	-.0210	-.0130	-.0230	-.0590
.775	-.0690	-.0200	.0190	-.0050	-.0720
.900		-.0600	.0310	.0410	-.0770

AMES 87-707 OA12 02A LEFT VERTICAL (RBQV10) (16 MAY 73)

REFERENCE DATA

BREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3300	.0770	.0290	.1380	.1420
.050	-.0820	-.1660	.1770	.2480	.2350
.150	-.0840	-.1420	.1310	.1990	.2000
.300	-.1080	-.1080	.1070	.1550	.1530
.520	-.1410	-.0990	.0690	.2270	.2460
.650	-.1740	-.0270	.3410	.3750	.0840
.775	-.1700	-.0420	.2940	.3870	.0130
.900		-.0790	.2720	.3460	-.0410

MACH (1) = 2.498 BETA (2) = -3.320

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2550	.0940	.2500	.2510	.1990
.050	-.1450	-.1730	.1940	.1880	.1760
.150	-.1020	-.1590	.1460	.1600	.1530
.300	-.1090	-.1320	.1060	.1200	.1280
.520	-.1520	-.1200	.0710	.1610	.1360
.650	-.1660	-.0520	.3370	.2350	.0220
.775	-.1550	-.0820	.3160	.3610	-.0040
.900		-.0910	.3110	.3180	-.0550

MACH (1) = 2.498 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4970	.5520	.2480	.2280	.1570
.050	-.0100	.0830	.0260	.0110	.0070
.150	.0770	.1230	.0660	.0340	.0250
.300	-.0420	-.0050	.0480	.0390	.0330
.520	-.1050	-.0520	.0190	.1350	.1300
.650	-.1690	.0700	.1780	.2000	-.0100
.775	-.1800	.0500	.1830	.2140	-.0430
.900		-.0900	.1800	.1910	-.0780

MACH (1) = 2.498 BETA (4) = 3.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3070	-.0270	.3180	.2510	.1540
.050	.2310	.0880	-.0960	-.0800	-.0680
.150	.2330	.0900	-.0920	-.0770	-.0660
.300	.0900	.0600	-.0510	-.0670	-.0590
.520	-.0120	.0060	.0120	.0140	-.0160
.650	-.1230	.1100	.1530	.0810	-.0410
.775	-.1170	.1060	.1280	.1460	-.0680
.900		-.0700	.1270	.1640	-.0930

AMES 87-707 OA12 02A LEFT VERTICAL (FBQV10)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3770	.0640	.1450	.1600	.0750
.050	.1890	.1170	-.1250	-.1280	-.1000
.150	.2090	.0840	-.1140	-.1300	-.1010
.300	.0830	.0360	-.0870	-.1190	-.0900
.520	-.0170	.0020	-.0700	-.0900	-.0970
.650	-.1360	.1210	-.0530	-.0520	-.1110
.775	-.1430	.1220	-.0860	.0230	-.1270
.900		-.0690	-.0730	.0410	-.1440

MACH (2) = 3.501 BETA (1) = -6.710

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2240	.0710	-.0020	.0960	.1220
.050	-.0470	-.0700	.1290	.2140	.2030
.150	-.0290	-.0530	.1060	.1760	.1770
.300	-.0520	-.0420	.0830	.1370	.1550
.520	-.0610	-.0470	.0490	.1500	.1910
.650	-.0860	-.0130	.2050	.2700	.0750
.775	-.0930	-.0170	.2040	.2990	.0310
.900		-.0380	.2040	.2850	-.0050

MACH (2) = 3.501 BETA (2) = -3.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1770	.0330	.2050	.2040	.1630
.050	-.0740	-.0910	.1590	.1280	.1220
.150	-.0530	-.0890	.1220	.1200	.1160
.300	-.0460	-.0930	.0910	.1000	.0960
.520	-.0740	-.0760	.0410	.1130	.1090
.650	-.0960	-.0570	.2200	.2330	.0400
.775	-.0970	-.0530	.1870	.2760	.0050
.900		-.0500	.1440	.2640	-.0190

MACH (2) = 3.501 BETA (3) = -.150

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1930	.3400	.1680	.1640	.1200
.050	-.0520	.0230	.0140	.0040	-.0010
.150	-.0270	.0440	.0380	.0080	.0030
.300	-.0380	-.0240	.0410	.0200	.0110
.520	-.0670	-.0550	.0230	.0730	.0730
.650	-.0950	-.0440	.1180	.1210	.0070
.775	-.1010	-.0290	.1420	.1370	-.0140
.900		-.0560	.1530	.1280	-.0360

MACH (2) = 3.501 BETA (4) = 3.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2150	.0560	.2710	.2050	.1350
.050	-.0240	.0330	-.0550	-.0490	-.0420
.150	.0650	.0690	-.0550	-.0510	-.0370
.300	-.0130	.0470	-.0420	-.0350	-.0220

AMES 87-707 CA12 CEA LEFT VERTICAL (RBOV10)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0570	.0110	-.0290	-.0140	-.0310
.650	-.0880	.0690	-.0160	.0110	-.0410
.775	-.0990	.0710	-.0080	.0500	-.0450
.900		-.0460	.0100	.0610	-.0550

MACH (2) = 3.501 BETA (5) = 6.480

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2350	.0870	.0760	.1150	.0730
.050	-.0220	.0180	-.0740	-.0720	-.0650
.150	.0280	.0680	-.0840	-.0710	-.0660
.300	-.0260	.0270	-.0820	-.0720	-.0580
.520	-.0690	-.0030	-.0820	-.0550	-.0580
.650	-.0990	.0570	-.0670	-.0420	-.0690
.775	-.1050	.0580	-.0590	-.0300	-.0680
.900		-.0540	-.0470	-.0270	-.0860

AMES 87-707 CA12 02A LEFT VERTICAL (PBQV11) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 45.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3700	.5690	.4730	.6000	.5640
.050	.3860	.5120	.4650	.4650	.4650
.150	.3170	.4150	.4100	.4290	.4270
.300	.2260	.2920	.3540	.4120	.4400
.520	.1690	.2210	.2760	.4910	.4960
.650	-.0460	.4890	.6790	.6650	.2660
.775	.0260	.4470	.5830	.7340	.1910
.900		.0440	.5680	.6410	.0930

MACH (1) = 2.498 BETA (2) = -3.300

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.4650	.7280	.5600	.6570	.5760
.050	.2680	.3530	.3120	.2590	.2470
.150	.2510	.3530	.3270	.3130	.2960
.300	.2000	.2470	.2800	.3230	.3060
.520	.1470	.1850	.2320	.3870	.4290
.650	-.0370	.4360	.5790	.5040	.1770
.775	.0030	.3840	.5330	.6600	.1480
.900		.0300	.4870	.5770	.0770

MACH (1) = 2.498 BETA (3) = -.220

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.8010	.7330	.5020	.6780	.5730
.050	.1050	.1430	.0960	.0740	.0820
.150	.2390	.2210	.1640	.1290	.1140
.300	.1620	.2050	.2160	.1570	.1620
.520	.1240	.1470	.1770	.3120	.2000
.650	-.0520	.3750	.4830	.5480	.1520
.775	-.0170	.3120	.4520	.5645	.0910
.900		.0130	.4150	.5020	.0340

MACH (1) = 2.498 BETA (4) = 3.070

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.4460	.7700	.6120	.6660	.5420
.050	.1730	.0040	-.0170	.0090	.0210
.150	.1620	.0400	.0380	.0410	.0660
.300	.1160	.1500	.0560	.0870	.0940
.520	.0610	.0940	.1550	.1410	.0930
.650	-.0620	.2340	.3560	.1740	.0370
.775	-.0380	.1920	.3670	.3780	.0260
.900		-.0150	.3430	.4350	-.0060

AMES 87-707 OA12 OBA LEFT VERTICAL (RBQV11)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.300

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3210	.6750	.5840	.6260	.4950
.050	-.0010	-.2510	-.0990	-.0470	-.0470
.150	.0710	-.0560	-.0760	-.0060	-.0150
.300	.0260	-.0530	-.0230	.0020	.0150
.520	-.0200	-.0340	.0050	.0330	.0140
.650	-.1010	.1600	.0420	.1030	-.0570
.775	-.0910	.1080	.1940	.1660	-.0940
.900		-.0470	.2530	.1740	-.1030

MACH (2) = 3.502 BETA (1) = -6.670

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2540	.5650	.5340	.6730	.6110
.050	.2580	.2970	.2090	.1980	.2070
.150	.2220	.3250	.2680	.2040	.1970
.300	.1950	.3070	.2940	.2320	.2460
.520	.1400	.2340	.2520	.3200	.2850
.650	.0090	.4650	.5470	.6180	.2310
.775	.0370	.4430	.5250	.6710	.1880
.900		.0770	.5060	.6440	.1340

MACH (2) = 3.502 BETA (2) = -3.410

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.4240	.6490	.5570	.6750	.5910
.050	.1980	.1670	.1110	.1420	.1460
.150	.1740	.2010	.1360	.1300	.1500
.300	.1520	.2420	.1660	.1720	.1820
.520	.1190	.1890	.1930	.1860	.1770
.650	.0030	.4190	.4730	.2430	.1160
.775	.0310	.3790	.4510	.4500	.0910
.900		.0520	.4460	.5080	.0800

MACH (2) = 3.502 BETA (3) = -.160

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.7280	.6770	.5940	.6880	.5830
.050	.0800	.0610	.0570	.0840	.0860
.150	.1300	.0960	.0570	.0670	.0780
.300	.1700	.1360	.0650	.1050	.1080
.520	.1010	.1080	.1010	.1240	.0950
.650	-.0140	.2660	.2510	.1280	.0260
.775	.0170	.2030	.3690	.2540	.0070
.900		.0230	.3640	.3280	-.0020

MACH (2) = 3.502 BETA (4) = 3.180

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.4860	.3950	.6120	.6920	.5730
.050	.0700	.0010	.0160	.0560	.0510
.150	.0920	.0290	.0140	.0390	.0410
.300	.0720	.0570	.0230	.0650	.0660

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQV11)

AMES 27-707 OA12 02A LEFT VERTICAL

SECTION (1)LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.160

Z/BV	.158	.316	.600	.840	.925
Y/CV					
.520	.0390	.0590	.0580	.0760	.0560
.650	-.0250	.1520	.0690	.0890	-.0010
.775	-.0050	.1800	.2130	.1480	-.0380
.900		.0050	.2950	.2110	-.0400

MACH (2) = 3.502 BETA (5) = 8.530

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2230	.6430	.5990	.6780	.5490
.050	.0150	-.0350	-.0170	.0090	.0110
.150	.0140	-.0160	-.0200	-.0080	-.0030
.300	.0000	-.0180	-.0210	-.0030	-.0040
.520	-.0170	-.0160	.0040	.0090	.0000
.650	-.0560	.0040	.0230	.0220	-.0360
.775	-.0530	.0100	.0690	.0890	-.0710
.900		-.0310	.1080	.1340	-.0770

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A LEFT VERTICAL (RBQV12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.530

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2040	.2610	.2910	.3360	.3320
.050	.1440	.2880	.3350	.3480	.3440
.150	.1480	.2310	.2880	.3090	.3110
.300	.0760	.1580	.2440	.2620	.2930
.520	.0230	.1130	.1770	.3650	.3420
.650	-.1100	.3030	.5100	.5260	.1880
.775	-.1010	.3170	.4560	.5480	.1010
.900		.0040	.4550	.5000	.0230

MACH (1) = 2.498 BETA (2) = -3.240

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2050	.3590	.3700	.4160	.3510
.050	.0270	.2020	.2210	.2240	.2270
.150	.1010	.1810	.2160	.2280	.2240
.300	.0520	.1210	.1780	.2100	.2370
.520	.0120	.0780	.1800	.2570	.2180
.650	-.1110	.2420	.3990	.3180	.0870
.775	-.1080	.2490	.3[illegible]	.4920	.0640
.900		-.0150	.3650	.4320	.0070

MACH (1) = 2.498 BETA (3) = -.170

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.6000	.4990	.3920	.4250	.3380
.050	.0590	.0430	.0180	.0250	.0350
.150	.1310	.1010	.0700	.0750	.0720
.300	.0570	.0680	.0980	.0940	.1000
.520	.0100	.0360	.0960	.1750	.1630
.650	-.1130	.2010	.3080	.3100	.0520
.775	-.0990	.1780	.2880	.3850	.0110
.900		-.0340	.2700	.3380	-.0360

MACH (1) = 2.498 BETA (4) = 3.020

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2480	.3870	.4200	.4220	.3190
.050	.1720	-.0100	-.0450	-.0460	-.0340
.150	.1520	.0590	-.0190	-.0200	.0130
.300	.1100	.0260	-.0060	.0260	.0430
.520	.0460	.0010	.0460	.0550	.0170
.650	-.0950	.0560	.2110	.1340	-.0330
.775	-.0640	.0200	.2210	.2990	-.0460
.900		-.0610	.1910	.2740	-.0620

AMES 87-707 OA12 02A LEFT VERTICAL (RBQV12)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1930	.3050	.3810	.3650	.2570
.050	.1290	-.0500	-.1110	-.0760	-.0370
.150	.1050	.0070	-.0980	-.0600	-.0370
.300	.0480	-.0270	-.0850	-.0550	-.0320
.520	.0100	-.0540	-.0470	-.0430	-.0610
.650	-.1020	-.0050	.0590	-.0220	-.0880
.775	-.0820	-.0100	.1160	.0970	-.1110
.900		-.0770	.1240	.1400	-.1100

MACH (2) = 3.502 BETA (1) = -6.750

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0760	.2310	.2970	.3790	.3360
.050	.1140	.1880	.2330	.2280	.2200
.150	.0900	.1820	.2230	.2260	.2180
.300	.0770	.1490	.1950	.2050	.2100
.520	.0050	.1050	.1490	.2540	.2430
.650	-.0570	.2360	.3790	.5970	.1490
.775	-.0590	.2500	.3530	.4650	.0950
.900		.0140	.3550	.4240	.0430

MACH (2) = 3.502 BETA (2) = -3.460

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0920	.2640	.3480	.4290	.3620
.050	.0130	.1100	.1010	.1130	.1200
.150	.0420	.1130	.1370	.1260	.1230
.300	.0270	.0900	.1420	.1490	.1460
.520	.0000	.0520	.1450	.1760	.1430
.650	-.0560	.1510	.2550	.2210	.0620
.775	-.0540	.1710	.3100	.4120	.0530
.900		-.0040	.3000	.3810	.0320

MACH (2) = 3.502 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3790	.4070	.3540	.4250	.3460
.050	.0250	.0180	.0200	.0570	.0630
.150	.0840	.0640	.0440	.0560	.0610
.300	.0300	.0500	.0640	.0820	.0770
.520	.0040	.0320	.0950	.0860	.0610
.650	-.0520	.1210	.1010	.0870	.0030
.775	-.0550	.1230	.2250	.2520	-.0230
.900		-.0190	.2210	.2870	-.0200

MACH (2) = 3.502 BETA (4) = 3.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1090	.3000	.3930	.4360	.3370
.050	.0330	-.0080	-.0270	-.0010	.0020
.150	.0490	.0170	-.0200	-.0060	-.0070
.300	.0530	.0040	-.0090	.0150	.0130

AMES 87-707 OA12 O2A LEFT VERTICAL (RBOV:2)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0290	-.0040	.0080	.0200	.0020
.650	-.0420	.0150	.0380	.0230	-.0370
.775	-.0390	.0070	.1290	.0720	-.0490
.900		-.0420	.1260	.1280	-.0500

MACH (2) = 3.502 BETA (5) = 6.430

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0450	.2700	.3660	.3900	.2830
.050	.0130	-.0360	-.0600	-.0320	-.0340
.150	.0160	-.0400	-.0500	-.0360	-.0270
.300	-.0020	-.0360	-.0380	-.0220	-.0180
.520	-.0210	-.0380	-.0170	-.0180	-.0290
.650	-.0670	-.0170	-.0040	-.0150	-.0490
.775	-.0630	-.0140	.0200	.0030	-.0740
.900		-.0530	.0380	.0500	-.0790

AMES 87-707 OA12 02A LEFT VERTICAL (RBQV13) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3300	.0790	.0330	.1440	.1490
.050	-.0690	-.1680	.1780	.2500	.2380
.150	-.0810	-.1400	.1340	.2020	.2020
.300	-.1030	-.1060	.1070	.1560	.1540
.520	-.1390	-.0940	.0730	.2260	.2470
.650	-.1710	-.0240	.3430	.3730	.0820
.775	-.1680	-.0390	.2940	.3030	.0130
.900		-.0840	.2710	.3470	-.0410

MACH (1) = 2.498 BETA (2) = -3.330

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2560	.1060	.2540	.2480	.2000
.050	-.1280	-.1720	.1920	.1810	.1700
.150	-.1010	-.1580	.1470	.1530	.1450
.300	-.1100	-.1320	.0990	.1140	.1210
.520	-.1550	-.1180	.0640	.1520	.1270
.650	-.1780	-.0510	.3290	.2310	.0160
.775	-.1700	-.0800	.3040	.3510	-.0070
.900		-.0980	.3040	.3090	-.0560

MACH (1) = 2.498 BETA (3) = -.160

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.5020	.5630	.2480	.2260	.1580
.050	.0090	.0880	.0280	.0080	.0040
.150	.0810	.1290	.0730	.0330	.0240
.300	-.0350	.0020	.0470	.0390	.0330
.520	-.1000	-.0480	.0180	.1320	.1280
.650	-.1600	.0730	.1760	.2000	-.0100
.775	-.1720	.0580	.1850	.2140	-.0410
.900		-.0900	.1780	.1890	-.0790

MACH (1) = 2.498 BETA (4) = 3.040

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2990	-.0260	.3130	.2420	.1480
.050	.2310	.0940	-.0920	-.0700	-.0600
.150	.2370	.0990	-.0860	-.0710	-.0600
.300	.0910	.0660	-.0450	-.0620	-.0520
.520	-.0100	.0100	.0160	.0200	-.0080
.650	-.1180	.1110	.1570	.0880	-.0340
.775	-.1130	.1040	.1340	.1530	-.0740
.900		-.0700	.1310	.1730	-.1000

AMES 87-707 OA12 OBA LEFT VERTICAL (RBQV13)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3720	.0700	.1440	.1580	.0750
.050	[illegible]	.1200	-.1220	-.1220	-.0940
.150	.2130	.0970	-.1100	-.1220	-.0960
.300	.0870	.0380	-.0830	-.1080	-.0850
.520	-.0160	.0050	-.0630	-.0810	-.0900
.650	-.1340	.1250	-.0480	-.0460	-.1050
.775	-.1370	.1250	-.0600	.0270	-.1300
.900		-.0670	-.0690	.0470	-.1480

MACH (2) = 3.502 BETA (1) = -5.710

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2240	.0710	-.0010	.1010	.1270
.050	-.0390	-.0680	.1300	.2210	.2090
.150	-.0260	-.0500	.1080	.1870	.1880
.300	-.0480	-.0380	.0920	.1470	.1590
.520	-.0580	-.0430	.0590	.1580	.1990
.650	-.0830	-.0110	.2150	.2900	.0850
.775	-.0900	-.0110	.2160	.3070	.0310
.900		-.0380	.2140	.2930	-.0030

MACH (2) = 3.502 BETA (2) = -3.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1780	.0390	.2060	.2060	.1650
.050	-.0530	-.0900	.1610	.1420	.1360
.150	-.0540	-.0860	.1310	.1330	.1280
.300	-.0420	-.0820	.1040	.1160	.1090
.520	-.0710	-.0700	.0540	.1250	.1220
.650	-.0930	-.0540	.2310	.2460	.0540
.775	-.0960	-.0490	.1950	.2880	.0090
.900		-.0530	.1530	.2780	-.0190

MACH (2) = 3.502 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1990	.3440	.1730	.1660	.1230
.050	-.0330	.0270	.0170	.0190	.0140
.150	-.0190	.0510	.0430	.0240	.0170
.300	-.0330	-.0170	.0530	.0310	.0230
.520	-.0620	-.0480	.0340	.0840	.0860
.650	-.0920	-.0390	.1290	.1360	.0170
.775	-.0990	-.0230	.1520	.1490	-.0100
.900		-.0560	.1650	.1410	-.0320

MACH (2) = 3.502 BETA (4) = 3.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2130	.0520	.2700	.2040	.1350
.050	-.0160	.0370	-.0500	-.0410	-.0340
.150	.0690	.0700	-.0520	-.0420	-.0300
.300	-.0110	.0490	-.0340	-.0260	-.0150

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AMES 87-707 OA12 02A LEFT VERTICAL (RBQV13)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0520	.0150	-.0210	-.0060	-.0230
.650	-.0860	.0740	-.0100	.0200	-.0320
.775	-.0950	.0760	.0010	.0600	-.0450
.900		-.0450	.0170	.0690	-.0570

MACH (2) = 3.502 BETA (5) = 6.470

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2320	.0880	.0720	.1150	.0710
.050	-.0190	.0180	-.0730	-.0640	-.0580
.150	.0290	.0660	-.0830	-.0660	-.0600
.300	-.0250	.0280	-.0750	-.0630	-.0530
.520	-.0680	-.0020	-.0730	-.0470	-.0500
.650	-.0980	.0600	-.0610	-.0360	-.0610
.775	-.1050	.0600	-.0500	-.0220	-.0730
.900		-.0560	-.0400	-.0210	-.0910

AMES 87-707 OA12 02A LEFT VERTICAL (RBQV14) (16 MAY 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -8.440

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3690	.5680	.4710	.5940	.5580
.050	.3870	.5120	.4640	.4650	.4670
.150	.3200	.4140	.4140	.4280	.4270
.300	.2280	.2940	.3500	.4090	.4360
.520	.1690	.2210	.2760	.4860	.4960
.650	-.0450	.4890	.6710	.6560	.2630
.775	.0250	.4450	.5790	.7320	.1800
.900		.0460	.5590	.6370	.0830

MACH (1) = 2.498 BETA (2) = -3.300

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.4490	.7220	.5540	.6500	.5710
.050	.2640	.3470	.3060	.2550	.2450
.150	.2470	.3490	.3250	.3120	.2940
.300	.1970	.2420	.2770	.3240	.3050
.520	.1420	.1810	.2900	.3880	.4280
.650	-.0430	.4340	.5620	.5050	.1740
.775	-.0040	.3780	.5300	.6530	.1400
.900		.0260	.4870	.5750	.0680

MACH (1) = 2.498 BETA (3) = -.170

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.7940	.7270	.5960	.6710	.5540
.050	.0990	.1320	.0870	.0720	.0800
.150	.2330	.2160	.1540	.1300	.1110
.300	.1760	.1960	.2180	.1550	.1600
.520	.1190	.1380	.1790	.3120	.2010
.650	-.0570	.3660	.4820	.5480	.1540
.775	-.0260	.3040	.4480	.5630	.0830
.900		.0110	.4120	.5010	.0260

MACH (1) = 2.498 BETA (4) = 3.080

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.4390	.7660	.6060	.6620	.5380
.050	.1700	.0030	-.0200	.0070	.0160
.150	.1560	.0340	.0320	.0370	.0620
.300	.1090	.1460	.0510	.0940	.0890
.520	.0550	.0900	.1610	.1400	.0910
.650	-.0680	.2340	.3530	.1670	.0430
.775	-.0410	.1870	.3660	.3780	.0150
.900		-.0130	.3430	.4340	-.0150

AMES 87-707 OA12 02A LEFT VERTICAL (RBQV14)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5120	.6710	.5920	.5240	.4910
.050	.0060	-.0740	-.0960	-.0610	-.0640
.150	.0740	-.0560	-.0760	-.0210	-.0360
.300	.0270	-.0530	-.0370	-.0210	-.0036
.520	-.0190	-.0340	-.0120	.0160	-.0030
.650	-.1040	.1570	.0270	.0810	-.0680
.775	-.0930	.1060	.1770	.1510	-.0980
.900		-.0390	.2350	.1620	-.1050

MACH (2) = 3.503 BETA (1) = -6.670

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2460	.5570	.5250	.6620	.5980
.050	.2580	.2910	.2050	.1950	.2040
.150	.2180	.3220	.2630	.2020	.1930
.300	.1900	.3010	.2890	.2220	.2430
.520	.1350	.2260	.2490	.3160	.2810
.650	.0040	.4570	.5410	.6060	.2310
.775	.0330	.4330	.5190	.6710	.1760
.900		.0700	.5030	.6420	.1290

MACH (2) = 3.503 BETA (2) = -3.420

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4340	.6470	.5600	.6760	.5890
.050	.2050	.1630	.1060	.1350	.1410
.150	.1720	.1970	.1330	.1240	.1450
.300	.1510	.2400	.1570	.1700	.1780
.520	.1170	.1870	.1880	.1770	.1720
.650	-.0010	.4150	.4720	.2360	.1090
.775	.0270	.3740	.4460	.4400	.0890
.900		.0480	.4420	.5000	.0770

MACH (2) = 3.503 BETA (3) = -.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7160	.6700	.5980	.6830	.5780
.050	.0850	.0560	.0520	.0910	.0920
.150	.1350	.0900	.0540	.0710	.0840
.300	.1330	.1320	.0710	.1100	.1130
.520	.0950	.1240	.1070	.1330	.0990
.650	-.0180	.2610	.2510	.1320	.0310
.775	.0110	.2580	.3710	.2530	.0020
.900		.0210	.3670	.3300	-.0050

MACH (2) = 3.503 BETA (4) = 3.180

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4590	.6870	.6030	.6840	.5630
.050	.0740	-.0050	.0130	.0510	.0470
.150	.0980	.0230	.0090	.0320	.0370
.300	.0680	.0310	.0210	.0650	.0620

AMES 87-707 OA12 02A LEFT VERTICAL (RBQV14)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.180

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0360	.0530	.0550	.0710	.0520
.650	-.0270	.1510	.0630	.0850	-.0040
.775	-.0090	.1770	.2050	.1430	-.0420
.900		.0040	.2880	.2020	-.0500

MACH (2) = 3.503 BETA (5) = 6.520

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2210	.6360	.5930	.6700	.5390
.050	.0200	-.0420	-.0200	.0120	.0140
.150	.0130	-.0200	-.0240	-.0060	-.0050
.300	.0000	-.0220	-.0200	-.0010	-.0050
.520	-.0230	-.0220	.0040	.0090	.0000
.650	-.0630	.0000	.0230	.0230	-.0350
.775	-.0560	.0050	.0710	.0880	-.0710
.900		-.0330	.1110	.1350	-.0770

AMES 87-707 OA12 02A LEFT VERTICAL (RB0V15) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.0490 INCHES YMRP = .0000 INCHES
BREF = 39.0490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.000

SELECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.1930	.2540	.2340	.3480	.3250
.050	.1460	.2880	.3320	.3480	.3410
.150	.1480	.2290	.2340	.3030	.3040
.300	.0740	.1550	.0380	.2580	.2890
.520	.0220	.1130	.1730	.3140	.3410
.650	-.1090	.3040	.5040	.5230	.1880
.775	-.1020	.3[illegible]	.4520	.0470	.0940
.900		.0130	.4460	.4930	.0170

MACH (1) = 2.498 BETA (2) = -3.340

Z/BV / X/CV	.158	.316	.600	.840	.925
.050	.2010	.4090	.3660	.4090	.3440
.150	.0230	.1930	.2290	.2160	.2210
.300	.0590	.1710	.2110	.2810	.3210
.520	.0470	.1160	.1750	.0110	.2330
.650	.0075	.2110	.1950	.2560	.2140
.900	-.1140	.2170	.3060	.3070	.0830
.775	-.1110	.2180	.3880	.4320	.0570
.900		-.0120	.3600	.4310	-.0020

MACH (1) = 2.498 BETA (3) = -.170

Z/BV / X/CV	.158	.316	.600	.840	.925
.050	.5970	.4570	.3900	.4250	.3370
.050	.0620	.0440	.0190	.0150	.0270
.150	.1290	.1030	.0660	.0660	.0450
.300	.0530	.0690	.0900	.0860	.0910
.520	.3110	.0360	.0900	.1700	.1590
.650	-.1120	.2050	.3050	.3060	.0520
.775	-.0960	.1830	.2830	.3800	.0110
.900		-.0290	.2590	.3320	-.0400

MACH (1) = 2.498 BETA (4) = 3.020

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2450	.3870	.4150	.4170	.3130
.050	.1680	-.0160	-.0480	-.0590	-.0490
.150	.1470	.0520	-.0260	-.0350	.0000
.300	.1040	.0180	-.0170	.0120	.0320
.520	.0400	-.0150	.0360	.0440	.0240
.650	-.1030	.0510	.2000	.1220	-.0400
.775	-.0720	.0170	.2000	.2690	-.0500
.900		-.0630	.1760	.2630	-.0090

AMES 67-707 OA12 OBA LEFT VERTICAL (RBQV15)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1660	.2940	.3760	.3590	.2500
.050	.1280	-.0510	-.1160	-.0790	-.0390
.150	.1000	.0050	-.0980	-.0630	-.0440
.300	.0470	-.0280	-.0870	-.0620	-.0330
.520	.0090	-.0550	-.0480	-.0490	-.0640
.650	-.1030	-.0070	.0590	-.0260	-.0900
.775	-.0870	-.0110	.1090	.0910	-.1190
.900		-.0770	.1160	.1340	-.1210

MACH (2) = 3.503 BETA (1) = -6.750

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0770	.2310	.2960	.3770	.3320
.050	.1240	.1850	.2300	.2290	.2200
.150	.0880	.1780	.2210	.2260	.2190
.300	.0380	.1360	.1960	.2050	.2110
.520	.0030	.1020	.1510	.2530	.2430
.650	-.0630	.2330	.3760	.3960	.1510
.775	-.0630	.2470	.3530	.4690	.0930
.900		.0140	.3530	.4270	.0430

MACH (2) = 3.503 BETA (2) = -3.460

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0890	.2570	.3430	.4230	.3570
.050	.0370	.1050	.0990	.1090	.1170
.150	.0410	.1080	.1330	.1210	.1210
.300	.0260	.0850	.1450	.1470	.1440
.520	-.0020	.0510	.1440	.1730	.1410
.650	-.0620	.1470	.2490	.2170	.0590
.775	-.0680	.1650	.3020	.4050	.0470
.900		-.0030	.2940	.3770	.0260

MACH (2) = 3.503 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3750	.4010	.3520	.4210	.3430
.050	.0400	.0110	.0150	.0460	.0530
.150	.0770	.0580	.0390	.0490	.0530
.300	.0250	.0450	.0580	.0740	.0680
.520	.0010	.0280	.0860	.0780	.0530
.650	-.0570	.1150	.0910	.0805	-.0080
.775	-.0590	.1180	.2200	.2370	-.0260
.900		-.0230	.2120	.2790	-.0270

MACH (2) = 3.503 BETA (4) = 3.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1070	.2970	.3820	.4300	.3340
.050	.0020	-.0070	-.0260	-.0070	-.0040
.150	.0510	.0190	-.0220	-.0140	-.0090
.300	.0530	.0030	-.0160	.0050	.0050

AMES 87-757 GA12 02A LEFT VERTICAL (SBOV15)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0270	-.0055	.0000	.0120	-.0040
.650	-.0440	.0130	.0310	.0180	-.0440
.775	-.0400	.0070	.1220	.0670	-.0510
.900		-.0400	.1200	.1230	-.0510

MACH (2) = 3.503 BETA (5) = 6.430

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0400	.2620	.3670	.3870	.2790
.050	.0150	-.0430	-.0660	-.0340	-.0340
.150	.0150	-.0470	-.0540	-.0360	-.0290
.300	-.0080	-.0390	-.0280	-.0210	-.0200
.520	-.0250	-.0440	-.0210	-.0190	-.0300
.650	-.0710	-.0220	-.0060	-.0170	-.0330
.775	-.0680	-.0210	.0255	-.0020	-.0770
.900		-.0590	.0360	.0450	-.0750

AMES 87-707 OA12 02A LEFT VERTICAL (RBQV16) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 35.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALZ = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3230	.0740	.0330	.1430	.1470
.050	-.0570	-.1730	.1750	.2440	.2350
.150	-.0830	-.1460	.1290	.1960	.1990
.300	-.1100	-.1120	.1010	.1530	.1490
.520	-.1450	-.1020	.0610	.2230	.2430
.650	-.1800	-.0280	.3350	.3700	.0780
.775	-.1760	-.0460	.2880	.3790	.0090
.900		-.0840	.2660	.3400	-.0460

MACH (1) = 2.498 BETA (2) = -3.320

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2560	.1030	.2500	.2430	.1960
.050	-.1040	-.1790	.1900	.1810	.1720
.150	-.1040	-.1630	.1430	.1570	.1490
.300	-.1110	-.1370	.1000	.1150	.1220
.520	-.1590	-.1220	.0590	.1570	.1320
.650	-.1790	-.0550	.3350	.2320	.0200
.775	-.1700	-.0860	.3140	.3570	-.0080
.900		-.0990	.3110	.3120	-.0580

MACH (1) = 2.498 BETA (3) = -.160

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.4960	.5590	.2400	.2160	.1490
.050	.0200	.0950	.0310	.0120	.0070
.150	.0800	.1290	.0710	.0360	.0240
.300	-.0370	-.0020	.0490	.0440	.0360
.520	-.1010	-.0470	.0220	.1380	.1370
.650	-.1620	.0750	.1820	.2030	-.0010
.775	-.1730	.0580	.1860	.2180	-.0510
.900		-.0890	.1830	.1920	-.0900

MACH (1) = 2.498 BETA (4) = 3.040

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3010	-.0190	.3190	.2460	.1520
.050	.2280	.0920	-.0970	-.0870	-.0730
.150	.2320	.0940	-.0930	-.0860	-.0750
.300	.0870	.0630	-.0590	-.0790	-.0690
.520	-.0130	.0080	.0030	.0060	-.0230
.650	-.1240	.1070	.1470	.0730	-.0480
.775	-.1170	.1030	.1190	.1380	-.0680
.900		-.0710	.1180	.1560	-.0950

AMES 87-707 OA12 02A LEFT VERTICAL (RBQV16)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3620	.0640	.1330	.1480	.0640
.050	.1850	.1130	-.1300	-.1300	-.1010
.150	.2050	.0810	-.1170	-.1310	-.1040
.300	.0730	.0310	-.0900	-.1160	-.0940
.520	-.0240	-.0040	-.0740	-.0910	-.0990
.650	-.1450	.1200	-.0610	-.0520	-.1150
.775	-.1480	.1240	-.0740	.0210	-.1350
.900		-.0730	-.0820	.0390	-.1540

MACH (2) = 3.503 BETA (1) = -6.720

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2230	.0690	-.0030	.0970	.1240
.050	-.0330	-.0700	.1200	.2090	.1990
.150	-.0290	-.0530	.1080	.1740	.1760
.300	-.0500	-.0420	.0810	.1340	.1490
.520	-.0610	-.0440	.0500	.1460	.1900
.650	-.0870	-.0120	.2020	.2670	.0740
.775	-.0920	-.0160	.2020	.2970	.0300
.900		-.0370	.1990	.2800	-.0050

MACH (2) = 3.503 BETA (2) = -3.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1690	.0280	.1970	.1960	.1560
.050	-.0170	-.0940	.1590	.1320	.1280
.150	-.0540	-.0900	.1280	.1260	.1200
.300	-.0470	-.0830	.0980	.1070	.1010
.520	-.0750	-.0730	.0530	.1170	.1160
.650	-.0970	-.0560	.2290	.2380	.0460
.775	-.0990	-.0530	.1870	.2820	-.0050
.900		-.0520	.1460	.2700	-.0290

MACH (2) = 3.503 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1990	.3400	.1710	.1640	.1210
.050	-.0090	.0250	.0150	.0200	.0140
.150	-.0210	.0460	.0370	.0260	.0200
.300	-.0380	-.0230	.0540	.0320	.0250
.520	-.0660	-.0540	.0370	.0860	.0860
.650	-.0950	-.0430	.1290	.1400	.0210
.775	-.1010	-.0270	.1550	.1510	-.0120
.900		-.0560	.1660	.1450	-.0330

MACH (2) = 3.503 BETA (4) = 3.150

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2090	.0420	.2650	.2000	.1310
.050	.0030	.0310	-.0530	-.0480	-.0390
.150	.0680	.0680	-.0530	-.0510	-.0320
.300	-.0120	.0460	-.0360	-.0310	-.0190

AMES 87-707 OA12 02A LEFT VERTICAL (RBQV16)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.150

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0540	.0150	-.0230	-.0090	-.0250
.650	-.0880	.0740	-.0120	.0140	-.0390
.775	-.0960	.0740	-.0030	.0520	-.0530
.900		-.0430	.0120	.0630	-.0650

MACH (2) = 3.503 BETA (5) = 6.470

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2350	.0860	.0780	.1180	.0760
.050	.0020	.0260	-.0720	-.0610	-.0550
.150	.0310	.0680	-.0810	-.0600	-.0560
.300	-.0220	.0290	-.0730	-.0580	-.0480
.520	-.0660	.0010	-.0680	-.0420	-.0470
.650	-.0950	.0670	-.0560	-.0290	-.0590
.775	-.1010	.0610	-.0460	-.0220	-.0700
.900		-.0490	-.0280	-.0180	-.0880

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C (REQV17) (10 MAY 73)

AMES 87-707 OA12 02A LEFT VERTICAL

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = 15.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5230	.4510	.2870	.3010	.2350
.050	.0560	.0660	.0290	.0290	.0290
.150	.1220	.1230	.0590	.0600	.0550
.300	.0180	.0580	.0750	.0700	.0660
.520	-.0350	.0130	.0590	.1950	.1690
.650	-.1370	.1590	.2400	.2720	.0220
.775	-.1400	.1390	.2220	.2350	-.0190
.900		.0000	.2130	.2530	-.0650

MACH (1) = 2.498 ALPHA (2) = 20.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4870	.5610	.2480	.2250	.1590
.050	-.0220	.1050	.0590	.0380	.0330
.150	.0410	.1050	.0850	.0620	.0530
.300	-.0580	-.0240	.0630	.0550	.0470
.520	-.1120	-.0530	.0460	.1460	.1350
.650	-.1690	.0530	.2080	.2050	-.0060
.775	-.1780	.0410	.2000	.2240	-.0360
.900		.0000	.1950	.1900	-.0820

MACH (1) = 2.498 ALPHA (3) = 25.180

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3730	.6390	.3020	.1640	.1040
.050	-.0670	.0120	.0720	.0450	.0370
.150	-.0190	-.0570	.0800	.0570	.0460
.300	-.0730	-.1390	.0350	.0390	.0240
.520	-.1220	-.1560	-.0070	.0640	.0690
.650	-.1750	-.1230	.1710	.1590	-.0420
.775	-.1750	-.0990	.1600	.1920	-.0700
.900		.0000	.1350	.1680	-.0960

MACH (1) = 2.496 ALPHA (4) = 30.150

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2640	.4130	.5070	.2350	.1480
.050	-.1010	-.1060	.0220	-.0250	-.0280
.150	-.0810	-.1310	-.0210	-.0040	-.0150
.300	-.1110	-.1630	-.0970	-.0190	-.0210
.520	-.1420	-.1720	-.0960	-.0210	-.0180
.650	-.1790	-.1420	.0340	.0760	-.0940
.775	-.1810	-.1280	.0470	.1190	-.1140
.900		.0000	.0320	.1030	-.1220

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQV17)

AMES 67-707 OA12 02A LEFT VERTICAL

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (5) = 35.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	1.1940	1.2210	1.3350	1.1960	.8400
.050	.8510	.8550	.8750	.9220	.9480
.150	.8590	.8180	.9310	.8700	.8960
.300	.8140	.7880	.7280	.8620	.8850
.520	.7710	.8120	.8410	1.0310	.7710
.650	.7690	.8160	.8480	1.1070	.8350
.775	.8440	.9230	.8350	1.0520	.7530
.900		.0000	.9640	.9770	.7520

MACH (1) = 2.498 ALPHA (6) = 38.670

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0010	.0470	.0820	.0800	.0200
.050	-.1880	-.1790	-.1170	-.0940	-.0910
.150	-.1790	-.1840	-.1270	-.0880	-.0950
.300	-.1690	-.1880	-.1410	-.0990	-.1010
.520	-.1800	-.1950	-.1650	-.1030	-.0930
.650	-.1870	-.1870	-.1240	-.0340	-.1360
.775	-.1880	-.1850	-.1270	-.0160	-.1430
.900		.0000	-.1420	-.0360	-.1390

MACH (2) = 3.501 ALPHA (1) = 15.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2900	.2910	.2320	.2650	.2140
.050	-.0080	.0380	.0020	.0250	.0350
.150	.0570	.0710	.0320	.0330	.0440
.300	-.0020	.0370	.0490	.0560	.0570
.520	-.0440	.0060	.0550	.0750	.0470
.650	-.0830	.0820	.1450	.0960	-.0020
.775	-.0890	.0860	.1520	.2250	-.0200
.900		.0000	.1540	.2020	-.0180

MACH (2) = 3.501 ALPHA (2) = 20.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2000	.3400	.1680	.1620	.1200
.050	-.0540	.0350	.0250	.0230	.0165
.150	-.0340	.0430	.0500	.0270	.0210
.300	-.0430	-.0380	.0490	.0350	.0290
.520	-.0710	-.0650	.0370	.0890	.0880
.650	-.0980	-.0580	.1270	.1340	.0150
.775	-.1010	-.0520	.1600	.1460	-.0120
.900		.0000	.1070	.1400	-.0320

MACH (2) = 3.501 ALPHA (3) = 25.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2210	.2450	.2670	.1120	.0620
.050	-.0460	-.0320	.1050	.0420	.0410
.150	-.0480	-.0490	.0360	.0470	.0350
.300	-.0590	-.0790	-.0090	.0350	.0270

AMES 87-707 OA12 02A LEFT VERTICAL (RBQV17)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (3) = 25.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0750	-.0840	-.0350	.0420	.0470
.650	-.0960	-.0680	.0610	.1140	-.0100
.775	-.0990	-.0470	.0540	.1550	-.0370
.900		.0000	.0280	.1530	-.0530

MACH (2) = 3.501 ALPHA (4) = 30.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1200	.1310	.1530	.2540	.1530
.050	-.0650	-.0740	-.0440	.0140	.0310
.150	-.0540	-.0800	-.0580	-.0060	.0220
.300	-.0750	-.0820	-.0550	-.0230	.0010
.520	-.0840	-.0800	-.0530	-.0230	-.0070
.650	-.1020	-.0600	.0010	.0460	-.0510
.775	-.1020	-.0630	.0050	.0720	-.0680
.900		.0000	-.0090	.0580	-.0760

MACH (2) = 3.501 ALPHA (5) = 35.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0200	.0310	.0420	.0710	.0430
.050	-.0950	-.0870	-.0640	-.0520	-.0430
.150	-.0870	-.0860	-.0680	-.0590	-.0520
.300	-.0890	-.0870	-.0670	-.0620	-.0570
.520	-.0980	-.0930	-.0670	-.0470	-.0460
.650	-.1050	-.0880	-.0330	-.0090	-.0690
.775	-.1080	-.0930	-.0310	.0100	-.0740
.900		.0000	-.0350	.0010	-.0750

MACH (2) = 3.501 ALPHA (6) = 38.630

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	-.0340	-.0050	-.0010	.0250	.0130
.050	-.1090	-.1010	-.0560	-.0600	-.0510
.150	-.1070	-.1030	-.0640	-.0550	-.0540
.300	-.1070	-.1110	-.0720	-.0580	-.0580
.520	-.1110	-.1090	-.0910	-.0590	-.0540
.650	-.1080	-.1090	-.0780	-.0290	-.0720
.775	-.1070	-.1090	-.0750	-.0140	-.0760
.900		.0000	-.0810	-.0130	-.0760

AMES 87-707 OA12 02A LEFT VERTICAL (RBQV18) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2070	.4320	.1950	-.0740	-.1230
.050	.0360	-.0160	-.0940	-.1180	-.1070
.150	-.0160	-.0430	-.0880	-.1220	-.1110
.300	-.0800	-.0970	-.0780	-.1070	-.0960
.520	-.1250	-.1270	-.0910	-.0580	-.0460
.650	-.1760	-.0730	.0140	-.0080	-.1020
.775	-.1870	-.0820	.0110	.0160	-.1210
.900		.0000	.0100	.0140	-.1420

MACH (1) = 2.498 BETA (2) = -3.310

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1140	.0950	.2670	-.0670	-.0270
.050	.0580	-.0110	-.1370	-.1520	-.0790
.150	.0200	-.0230	-.1450	-.1530	-.0870
.300	-.0430	-.0770	-.1530	-.1430	-.0820
.520	-.0940	-.1200	-.1530	-.0930	-.0670
.650	-.1630	-.0820	-.1110	-.0460	-.1190
.775	-.1710	-.0910	-.0800	-.0330	-.1430
.900		.0000	-.0690	-.0460	-.1510

MACH (1) = 2.498 BETA (3) = -.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2620	.4000	.5030	.2350	.1480
.050	-.1070	-.1140	.0310	-.0280	-.0280
.150	-.0850	-.1330	-.0160	-.0060	-.0160
.300	-.1140	-.1680	-.0590	-.0180	-.0230
.520	-.1480	-.1750	-.0950	-.0240	-.0190
.650	-.1820	-.1430	.0430	.0780	-.0950
.775	-.1830	-.1300	.0510	.1180	-.1170
.900		.0000	.0360	.1020	-.1220

MACH (1) = 2.498 BETA (4) = 3.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0600	.0580	.1780	-.0900	-.0440
.050	-.2160	-.1960	.1810	-.0570	-.0570
.150	-.2130	-.1960	.1130	-.0650	-.0720
.300	-.1990	-.1900	.0450	-.0590	-.0870
.520	-.1890	-.1840	-.0280	-.0020	-.0580
.650	-.1910	-.1590	.1760	.1040	-.0880
.775	-.1890	-.1450	.1330	.1480	-.0980
.900		.0000	.0940	.1450	-.1250

DATE 10 SEP 79 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A LEFT VERTICAL (F3QV18)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1570	.4250	.1990	-.0860	-.1290
.050	-.1990	-.1130	-.0140	-.0540	-.0970
.150	-.1970	-.1300	-.0020	-.0510	-.1120
.300	-.1850	-.1660	-.0170	-.0520	-.1160
.520	-.1810	-.1700	-.0580	-.0190	-.0650
.650	-.1960	-.1450	.0970	.0660	-.1020
.775	-.1940	-.1220	.0850	.1010	-.1150
.900		.0000	.0580	.0890	-.1340

MACH (2) = 3.501 BETA (1) = -6.700

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0190	-.0150	.0940	.0510	.0120
.050	-.0720	-.0180	.0820	.0420	.0310
.150	-.0640	-.0210	.0590	.0380	.0240
.300	-.0770	-.0460	.0260	.0190	.0120
.520	-.0910	-.0580	-.0030	.0320	.0320
.650	-.1070	-.0300	.0970	.0920	-.0150
.775	-.1170	-.0150	.0850	.1140	-.0430
.900		.0000	.0750	.0950	-.0590

MACH (2) = 3.501 BETA (2) = -3.420

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0740	.0460	.0510	.1250	.0240
.050	-.0650	-.0030	.0560	-.0240	-.0450
.150	-.0620	-.0400	.0480	-.0270	-.0550
.300	-.0780	-.0500	.0270	-.0180	-.0460
.520	-.0900	-.0700	-.0050	.0000	-.0100
.650	-.1040	-.0470	.0930	.0320	-.0420
.775	-.1070	-.0310	.0930	.0480	-.0620
.900		.0000	.0640	.0460	-.0760

MACH (2) = 3.501 BETA (3) = -.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1210	.1360	.1570	.2550	.1610
.050	-.0650	-.0740	-.0420	.0080	.0300
.150	-.0690	-.0700	-.0550	-.0100	.0153
.300	-.0770	-.0800	-.0600	-.0280	-.0030
.520	-.0930	-.0780	-.0400	-.0290	-.0130
.650	-.1040	-.0540	-.0060	.0410	-.0620
.775	-.1330	-.0900	-.0530	.0090	-.0670
.900		.0000	-.0130	.0520	-.0730

MACH (2) = 3.501 BETA (4) = 3.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0720	.0720	.0740	.1190	.0490
.050	-.0640	-.0980	-.0980	.0210	.0540
.150	-.0641	-.0990	-.0940	.0110	.0350
.300	-.0670	-.0980	-.0900	-.0110	.0151

AMES 67-707 OA12 02A LEFT VERTICAL (RBQV18)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0890	-.0980	-.0730	-.0130	.0030
.650	-.1050	-.0820	-.0490	.0580	-.0500
.775	-.1080	-.0820	-.0450	.1220	-.0620
.900		.0000	-.0530	.1220	-.0670

MACH (2) = 3.501 BETA (5) = 6.470

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0010	-.0090	.1460	.0610	.0040
.050	-.1060	-.1140	-.0840	-.0600	-.0460
.150	-.1060	-.1140	-.0940	-.0570	-.0530
.300	-.1050	-.1140	-.0820	-.0590	-.0530
.520	-.1060	-.1140	-.0840	-.0470	-.0420
.650	- 1140	-.1110	-.0560	-.0030	-.0670
.775	-.1140	-.1100	-.0330	.0290	-.0810
.900		.0000	-.0370	.0210	-.0800

... 1, SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 67-707 OA12 02A LEFT VERTICAL (98QV19) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	30.000	RUDDER =	-20.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -5.470

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1730	.3940	.2040	-.0570	-.1250
.050	.0150	-.0180	-.0810	-.1340	-.1280
.150	-.0280	.0480	-.0750	-.1190	-.1180
.300	-.0940	-.1040	-.0680	-.1030	-.1020
.520	-.1390	-.1300	-.0800	-.0780	-.0690
.650	-.1800	-.1710	-.1240	-.1220	-.1470
.775	-.1930	-.1870	-.1330	-.1160	-.1590
.900		.0000	-.1340	-.1190	-.1570

MACH (1) = 2.498 BETA (2) = -3.350

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1210	.0080	.2860	-.0910	-.0950
.050	.0410	.0020	-.1360	-.1930	-.1600
.150	-.0040	-.0190	-.1270	-.1930	-.1540
.300	-.0620	-.0750	-.1190	-.1870	-.1340
.520	-.1060	-.1210	-.1270	-.1460	-.1080
.650	-.1740	-.1660	-.1620	-.1570	-.1680
.775	-.1880	-.1840	-.1710	-.1460	-.1750
.900		.0000	-.1720	-.1470	-.1710

MACH (1) = 2.498 BETA (3) = -.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2360	.3590	.5480	.2150	.1390
.050	-.0970	-.1090	-.0230	-.0320	-.0440
.150	-.0870	-.1330	-.0660	-.0000	-.0220
.300	-.1180	-.1650	-.1020	-.0280	-.0310
.520	-.1490	-.1780	-.1200	-.0250	-.0120
.650	-.1870	-.1930	-.1560	-.0980	-.1300
.775	-.1890	-.1930	-.1600	-.0960	-.1530
.900		.0000	-.1610	-.1040	-.1560

MACH (1) = 2.498 BETA (4) = 3.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0790	.0000	.1880	-.0990	-.0890
.050	-.2250	-.2200	.1230	-.0130	-.0620
.150	-.2250	-.2190	.0560	.0020	-.0650
.300	-.2180	-.2100	.0120	.0030	-.0750
.520	-.2060	-.2020	-.0370	.0200	-.1350
.650	-.2040	-.2060	-.1000	-.0590	-.1030
.775	-.2020	-.2060	-.1120	-.0540	-.1050
.900		.0000	-.1190	-.0680	-.1210

DATE 10 SEP 75 TABULATED PRESSURE DATA - OA12C (RBQV19)

AMES 87-707 OA12 02A LEFT VERTICAL

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1500	.3510	.2270	-.0540	-.1230
.050	-.2010	-.1510	-.0340	-.0410	-.1010
.150	-.2000	-.1510	-.0240	-.0280	-.0930
.300	-.1960	-.1710	-.0350	-.0360	-.1000
.520	-.1870	-.1780	-.0660	-.0230	-.0570
.650	-.2010	-.2010	-.1250	-.0940	-.1400
.775	-.2000	-.2040	-.1390	-.0890	-.1510
.900		.0000	-.1470	-.0960	-.1510

MACH (2) = 3.502 BETA (1) = -6.700

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	-.0020	-.0480	.0820	.0620	.0260
.050	-.0720	-.0160	.0790	.0490	.0300
.150	-.0660	-.0200	.0530	.0450	.0300
.300	-.0790	-.0430	.0240	.0260	.0210
.520	-.0920	-.0560	-.0020	.0260	.0280
.650	-.1060	-.0790	-.0300	-.0240	-.0440
.775	-.1090	-.0860	-.0400	-.0210	-.0610
.900		.0000	-.0400	-.0280	-.0680

MACH (2) = 3.502 BETA (2) = -3.420

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0690	.0560	.0670	.1350	.0520
.050	-.0700	-.0510	.0810	-.0160	-.0390
.150	-.0650	-.0500	.0650	-.0040	-.0350
.300	-.0800	-.0630	.0410	-.0020	-.0260
.520	-.0900	-.0710	.0010	.0000	-.0060
.650	-.1050	-.0910	-.0320	-.0300	-.0580
.775	-.1060	-.0970	-.0440	-.0370	-.0720
.900		.0000	-.0440	-.0420	-.0770

MACH (2) = 3.502 BETA (3) = -.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1050	.1150	.1350	.1910	.1630
.050	-.0710	-.0830	-.0530	-.0110	.0110
.150	-.0710	-.0850	-.0660	-.0170	.0070
.300	-.0810	-.0850	-.0570	-.0320	-.0100
.520	-.0870	-.0820	-.0570	-.0250	-.0060
.650	-.1050	-.0990	-.0720	-.0530	-.0670
.775	-.1070	-.1040	-.0710	-.0540	-.0850
.900		.0000	-.0760	-.0570	-.0990

MACH (2) = 3.502 BETA (4) = 3.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0640	.0540	.1180	.1250	.0730
.050	-.0810	-.0950	-.0870	.0010	.0280
.150	-.0830	-.0920	-.1030	-.0060	.0190
.300	-.0810	-.0940	-.0980	-.0250	.0030

..TE 16 SEP 93 TABULATED PRESSURE DATA - OA12C (PBQV19)

AMES 67-707 OA12 OEA LEFT VERTICAL

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0880	-.0950	-.0820	-.0200	.0030
.650	-.1030	-.1050	-.0780	-.0590	-.0590
.775	-.1070	-.1060	-.0780	-.0560	-.0780
.900		.0000	-.0780	-.0590	-.0830

MACH (2) = 3.502 BETA (5) = 6.470

Z/BV	.158	.316	.600	.840	.925
X/CV					
.050	-.0160	-.0390	.1430	.0710	.0180
.050	-.1080	-.1130	-.0800	-.0790	-.0730
.150	-.1050	-.1130	-.0800	-.0745	-.0680
.300	-.1040	-.1140	-.0940	-.0730	-.0640
.520	-.1070	-.1110	-.0950	-.0610	-.0490
.650	-.1100	-.1110	-.1080	-.0790	-.0690
.775	-.1110	-.1110	-.1100	-.0830	-.0910
.900		.0000	-.1110	-.0830	-.0980

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A LEFT VERTICAL (RB9V20) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.6490 INCHES YMRP = .0000 INCHES
BREF = 39.6490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = 10.000 RUDFLP = 40.000

SECTION- (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.1790	.3660	.2080	-.0560	-.1340
.050	.0130	-.0080	-.0770	-.1190	-.1200
.150	-.0310	-.0400	-.0700	-.1220	-.1220
.300	-.0920	-.1010	-.0690	-.1090	-.1090
.520	-.1350	-.1330	-.0920	-.0710	-.0590
.650	-.1840	-.0840	.0180	-.0110	-.1100
.775	-.1880	-.0910	.0110	.0120	-.1330
.900		.0000	.0140	.0110	-.1510

MACH (1) = 2.498 BETA (2) = -3.300

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.1070	-.0260	.2700	-.0940	-.1040
.050	.0480	-.0020	-.1320	-.1770	-.1520
.150	.0030	-.0220	-.1260	-.1900	-.1550
.300	-.0550	-.0700	-.1160	-.1810	-.1390
.520	-.1020	-.1160	-.1250	-.1350	-.1070
.650	-.1680	-.0770	-.0780	-.0930	-.1450
.775	-.1810	-.0890	-.0630	-.0670	-.1610
.900		.0000	-.0610	-.0630	-.1610

MACH (1) = 2.498 BETA (3) = -.130

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2370	.3320	.5400	.2110	.1330
.050	-.1050	-.1150	-.0130	-.0240	-.0330
.150	-.0940	-.1360	-.0600	-.0790	-.0210
.300	-.1150	-.1600	-.0940	-.0260	-.0310
.520	-.1480	-.1790	-.1210	-.0380	-.0200
.650	-.1850	-.1460	-.0180	.0640	-.1010
.775	-.1850	-.1350	.0130	.1100	-.1370
.900		.0000	-.0060	.1050	-.1360

MACH (1) = 2.498 BETA (4) = 3.060

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.0770	-.1150	.4970	-.0970	-.0960
.050	-.2080	-.2750	.1040	-.0740	-.0540
.150	-.2080	-.3070	.0490	.0040	-.0660
.300	-.2070	-.2900	-.0100	.0050	-.0790
.520	-.1940	-.1940	-.0140	.0030	-.1270
.650	-.1810	-.1730	.1030	.1400	-.0750
.775	-.1950	-.1800	.0810	.1760	-.0960
.900		.0000	.0670	.1470	-.1160

AMES BW-712 W/ 2 JET LEFT VERTICAL (B3W/C3)

SECTION (1)LEFT VERTICAL LEFT/RIGHT VARIABLE IP

MACH (1) = 2.498 BETA (5) = -7.740

Z/BV	.158	.316	.600	.840	.925
Y/CV					
.000	-.0510	-.1120	.2250	-.0930	-.1250
.050	-.2020	-.1410	-.0130	-.0897	-.0610
.150	-.2000	-.1510	-.0190	-.0250	-.0870
.300	-.1520	-.1780	-.0300	-.0310	-.0970
.520	-.1490	-.1810	-.0730	-.0310	-.0500
.650	-.2000	-.1050	.0560	.0770	-.0380
.775	-.1960	-.1530	.0501	.1090	-.1230
.900		.4000	.0300	.0900	-.1320

MACH (2) = 3.501 BETA (1) = -8.700

Z/BV	.158	.316	.600	.840	.925
Y/CV					
.000	-.0060	-.0360	.0750	.0590	.0230
.050	-.0770	-.0230	.0780	.0540	.0390
.150	-.0960	-.0240	.0430	.0450	.0320
.300	-.0810	-.0480	.0230	.0270	.0170
.520	-.0950	-.0610	-.0050	.0230	.0325
.650	-.1060	-.0310	.0800	.0930	-.0170
.775	-.1110	-.0190	.0690	.1110	-.0440
.900		.0000	.0610	.0890	-.0610

MACH (2) = 3.501 BETA (2) = -3.420

Z/BV	.158	.316	600	.840	.925
Y/CV					
.000	.0670	.0120	.0570	.1290	.0480
.050	-.0720	-.0580	.0790	-.0050	-.0300
.150	-.0640	-.0530	.0630	-.0050	-.0350
.300	-.0850	-.0660	.0370	-.0040	-.0270
.520	-.0950	-.0780	-.0010	-.0010	-.0030
.650	-.1080	-.0610	.1070	.0440	-.0340
.775	-.1100	-.0610	.0890	.0610	-.0610
.900		.0000	.0740	.0540	-.0760

MACH (2) = 3.501 BETA (3) = -.150

Z/BV	.158	.316	.600	.840	.925
Y/CV					
.000	.1000	.1110	.1330	.1880	.1600
.050	-.0710	-.0850	-.0530	-.0060	.0250
.150	-.0720	-.0870	-.0650	-.0150	.0080
.300	-.0780	-.0630	-.0560	-.0290	-.0070
.520	-.0870	-.0810	-.0510	-.0250	-.0130
.650	-.1030	-.0630	-.0020	.0390	-.0920
.775	-.1080	-.0670	.0010	.0630	-.0790
.900		.0000	-.0060	.0510	-.0840

MACH (2) = 3.501 BETA (4) = 3.170

Z/BV	.158	.316	.600	.840	.925
Y/CV					
.000	.0640	.0650	.1120	.1230	.0750
.050	-.0980	-.0980	-.0900	.0000	.0330
.150	-.0980	-.0980	-.1060	-.0130	.0180
.300	-.0990	-.0990	-.0680	-.0280	.0130

AMES 67-707 OA12 02A LEFT VERTICAL (PBQ:2C)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.170

Z/BV / X/CV	.158	.316	.600	.840	.925
.520	-.0930	-.0980	-.0710	-.0300	-.0100
.650	-.1070	-.0890	-.0440	.0320	-.0540
.775	-.1090	-.0900	-.0130	.0700	-.0710
.900		.0000	-.0360	.0470	-.0770

MACH (2) = 3.501 BETA (5) = 6.470

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	-.0190	-.0410	.1420	.0740	.0170
.050	-.1130	-.1190	-.0820	-.0630	-.0520
.150	-.1110	-.1200	-.0960	-.0530	-.0560
.300	-.1100	-.1190	-.0840	-.0600	-.0540
.520	-.1090	-.1160	-.0850	-.0510	-.0420
.650	-.1100	-.1120	-.0700	-.0090	-.0680
.775	-.1120	-.1090	-.0530	.0220	-.0620
.900		.0000	-.0490	.0160	-.0860

AMES 87-707 CM12 02A LEFT VERTICAL

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8430 INCHES	YMRP =	.0000 INCHES		
BREF =	33.0490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	30.000	RUDDER =	.000
ELEVON =	-20.000	RUDFLP =	40.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2090	.3070	.2050	-.0620	-.1350
.050	.0210	.0040	-.0710	-.1140	-.1140
.150	-.0260	-.0380	-.1690	-.1180	-.1160
.300	-.0890	-.0970	-.0650	-.1030	-.1010
.520	-.1320	-.1300	-.0880	-.0650	-.0550
.650	-.1810	-.0780	.0230	-.0050	-.1070
.775	-.1690	-.0650	.0160	.0160	-.1410
.900		.0000	.0190	.0160	-.1610

MACH (1) = 2.498 BETA (2) = -3.310

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.1130	.0060	.2720	-.1020	-.1020
.050	.0450	.0020	-.1320	-.1820	-.1530
.150	.0030	-.0210	-.1270	-.1940	-.1540
.300	-.0570	-.0750	-.1250	-.1830	-.1380
.520	-.1060	-.1190	-.1340	-.1340	-.1020
.650	-.1700	-.0780	-.0870	-.0890	-.1450
.775	-.1810	-.0910	-.0700	-.0060	-.1550
.900		.0000	-.0690	-.0620	-.1550

MACH (1) = 2.498 BETA (3) = -.130

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2380	.3480	.5360	.2170	.1400
.050	-.1050	-.1150	-.0100	-.0350	-.0450
.150	-.0920	-.1380	-.0550	-.0200	-.0290
.300	-.1190	-.1670	-.0980	-.0340	-.0390
.520	-.1500	-.1790	-.1260	-.0470	-.0350
.650	-.1860	-.1470	-.0080	.0590	-.1080
.775	-.1840	-.1320	.0100	.1050	-.1240
.900		.0000	-.0050	.0920	-.1300

MACH (1) = 2.498 BETA (4) = 3.060

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.0710	-.0100	.1830	-.0990	-.0920
.050	-.2060	-.2050	.1240	-.0150	-.0640
.150	-.2080	-.2010	.0650	-.0050	-.0760
.300	-.1980	-.1930	.0000	-.0030	-.0340
.520	-.1830	-.1840	-.0590	-.0020	-.0320
.650	-.1860	-.1660	.0120	.1310	-.0790
.775	-.1850	-.1600	.0810	.1620	-.0890
.900		.0000	.0610	.1440	-.1030

AMES 87-707 OA12 02A LEFT VERTICAL (P80/21)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.250

Z/BV	.158	.316	.600	.840	.925
Y/CV					
.000	.1370	.3570	.2160	-.0640	-.1320
.050	-.1990	-.1350	-.0370	-.0350	-.0900
.150	-.1980	-.1410	-.0141	-.0310	-.0950
.300	-.1910	-.1710	-.0300	-.0370	-.1000
.520	-.1850	-.1770	-.0790	-.0360	-.0560
.650	-.1990	-.1580	.0560	.0710	-.1030
.775	-.1990	-.1460	.0460	.1030	-.1290
.900		.0000	.0260	.0840	-.1360

MACH (2) = 3.503 BETA (1) = -6.700

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0010	-.0480	.0840	.0630	.0270
.050	-.0710	-.0160	.0800	.0480	.0300
.150	-.0640	-.0180	.0510	.0280	.0250
.300	-.0780	-.0430	.0170	.0190	.0100
.520	-.0890	-.0560	-.0110	.0180	.0260
.650	-.1050	-.0240	.0770	.0900	-.0210
.775	-.1070	-.0140	.0960	.1050	-.0400
.900		.0000	.0570	.0840	-.0560

MACH (2) = 3.503 BETA (2) = -3.410

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0650	.0490	.0600	.1310	.0490
.050	-.0620	-.0550	.0770	-.0060	-.0290
.150	-.0690	-.0520	.0610	-.0110	-.0360
.300	-.0840	-.0660	.0370	-.0090	-.0260
.520	-.0930	-.0750	-.0010	-.0070	-.0020
.650	-.1070	-.0550	.1080	.0460	-.0380
.775	-.1070	-.0570	.0900	.0600	-.0620
.900		.0000	.0730	.0550	-.0730

MACH (2) = 3.503 BETA (3) = -.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1030	.1140	.1350	.1910	.1610
.050	-.0660	-.0810	-.0510	-.0100	.0240
.150	-.0660	-.0810	-.0620	-.0220	.0070
.300	-.0730	-.0780	-.0610	-.0360	-.0120
.520	-.0810	-.0770	-.0610	-.0320	-.0200
.650	-.1000	-.0600	-.0150	.0360	-.0570
.775	-.1040	-.0620	-.0020	.0600	-.0740
.900		.0000	-.0010	.0500	-.0410

MACH (2) = 3.503 BETA (4) = 3.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0690	.0390	.1110	.1230	.0690
.050	-.0990	-.0930	-.0920	.0030	.0360
.150	-.0940	-.0930	-.1040	-.0050	.0220
.300	-.0830	-.0960	-.0800	-.0250	.0020

DATE 16 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A LEFT VERTICAL

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0870	-.0920	-.0710	-.0270	-.0060
.650	-.1020	-.0830	-.0480	.0370	-.0520
.775	-.1040	-.0780	-.0370	.0810	-.0780
.900		.0000	-.0370	.0640	-.0810

MACH (2) = 3.503 BETA (5) = 6.470

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	-.0140	-.0380	.1440	.0730	.0170
.050	-.1060	-.1130	-.0800	-.0500	-.0490
.150	-.1070	-.1140	-.0910	-.0620	-.0550
.300	-.1050	-.1140	-.0830	-.0610	-.0560
.520	-.1070	-.1130	-.0870	-.0520	-.0420
.650	-.1090	-.1100	-.0670	-.0100	-.0670
.775	-.1100	-.1040	-.0510	.0250	-.0910
.900		.0000	-.0430	.0210	-.0840

AMES 87-707 OA12 C2A LEFT VERTICAL (RBQV22) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 30.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -9.630

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4210	.0110	-.0820	-.0570	.0030
.050	-.1240	-.0740	.1580	.1540	.2340
.150	-.1720	-.0400	.1260	.1900	.2100
.300	-.1070	-.0490	.1000	.1540	.1740
.520	-.1270	-.0510	.0750	.2000	.3410
.650	-.1740	.0360	.2030	.3420	.0970
.775	-.1720	.0000	.1840	.3600	.0260
.900		.0000	.2430	.3330	-.0420

MACH (1) = 2.498 BETA (2) = -5.610

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3820	.0700	-.0190	.1420	.1240
.050	-.0670	-.1700	.1410	.2370	.0270
.150	-.0780	-.1540	.1060	.1890	.1320
.300	-.1020	-.1270	.0810	.1460	.1440
.520	-.1420	-.1110	.0500	.2160	.2420
.650	-.1800	-.0410	.2830	.3480	.0640
.775	-.1760	-.0520	.2430	.3520	.0070
.900		.0000	.2340	.3240	-.0540

MACH (1) = 2.498 BETA (3) = .430

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4710	.6420	.2520	.2120	.1540
.050	-.0430	.1250	.0920	.0700	.0610
.150	.0030	.0540	.0990	.0810	.0720
.300	-.0730	-.0610	.0720	.0530	.0690
.520	-.1210	-.0870	.0530	.1110	.0920
.650	-.1730	.0030	.2190	.1940	-.0040
.775	-.1820	-.0060	.2140	.2430	-.0340
.900		.0000	.2070	.2150	-.0790

MACH (1) = 2.498 BETA (4) = 6.450

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3770	-.0310	.1730	.1780	.0890
.050	.1970	.0560	-.1160	-.1280	-.1050
.150	.2160	.0700	-.0940	-.1260	-.1130
.300	.0460	.0530	-.0820	-.1180	-.0950
.520	-.0530	.0110	-.0670	-.0750	-.0770
.650	-.1510	.1570	-.0750	-.0170	-.0980
.775	-.1480	.1740	-.0860	.0700	-.1160
.900		.0000	-.0810	.0580	-.1400

TABULATED PRESSURE DATA - OA12C

AMES 07-707 OA12 G2A LEFT VERTICAL (PROJV22)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.490 BETA (5) = 10.460

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4010	.0620	.0350	.0400	-.0270
.050	.1280	.0340	-.1490	-.1540	-.1380
.150	.1650	.0370	-.1650	-.1600	-.1400
.300	.0580	-.0070	-.1390	-.1500	-.1310
.520	-.0140	-.0420	-.1000	-.1470	-.1490
.650	-.1380	.0620	-.0990	-.1300	-.1600
.775	-.1410	.0640	-.0960	-.1080	-.1680
.900		.0000	-.0970	-.0800	-.2010

MACH (2) = 3.502 BETA (1) = -5.610

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1750	-.0070	.0290	.0240	.0400
.050	-.0360	.0910	.1870	.2120	.1920
.150	-.0620	.0880	.1510	.1700	.1710
.300	-.0520	.0440	.1260	.1590	.1560
.520	-.0650	.0260	.0990	.1910	.2060
.650	-.0920	.1090	.2640	.3080	.0970
.775	-.0970	.1210	.2500	.3250	.0350
.900		.0000	.2410	.3060	-.0010

MACH (2) = 3.502 BETA (2) = -5.600

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2460	.1200	-.0030	.0350	.1070
.050	-.0440	-.0710	.1080	.2070	.2000
.150	-.0220	-.0580	.0920	.1650	.1760
.300	-.0400	-.0490	.0740	.1220	.1470
.520	-.0160	-.0530	.0440	.1300	.1840
.650	-.0910	-.0230	.1830	.2390	.0740
.775	-.0960	-.0220	.1820	.2690	.0270
.900		.0000	.1660	.2520	-.0130

MACH (2) = 3.502 BETA (3) = .420

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1580	.3700	.1640	.1470	.1100
.050	-.0580	.0000	.0690	.0420	.0370
.150	-.0400	-.0140	.0730	.0510	.0110
.300	-.0450	-.0680	.0570	.0480	.0470
.500	-.0720	-.0340	.0490	.0780	.0760
.650	-.0970	-.0850	.1360	.1210	.0170
.775	-.1020	-.0590	.1830	.1610	-.0060
.900		.0000	.1640	.1560	-.0310

MACH (2) = 3.502 BETA (4) = 6.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0660	.1100	.0510	.1570	.0840
.050	-.0140	.0320	-.0720	-.0540	-.0500
.150	.0200	.0810	-.0790	-.0960	-.0400
.300	-.0470	.0320	-.0680	-.0730	-.0360

AMES 87-707 OA12 02A LEFT VERTICAL (REV02)

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 6.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0750	.0020	-.0630	-.0290	-.0350
.650	-.0950	.0530	-.0420	-.0140	-.0520
.775	-.1040	.0520	-.0340	-.0070	-.0620
.900		.0000	-.0320	-.0040	-.0780

MACH (2) = 3.502 BETA (5) = 10.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2790	.0610	.1270	.0620	-.0020
.050	-.0370	-.0540	-.0800	-.0790	-.0840
.150	-.0160	-.0340	-.0690	-.0850	-.0820
.300	.0100	-.0070	-.0620	-.0820	-.0770
.520	-.0480	-.0290	-.0570	-.0800	-.0830
.650	-.0860	.0240	-.0550	-.0800	-.0920
.775	-.0920	.0370	-.0420	-.0790	-.0960
.900		.0000	-.0320	-.0820	-.1080

AMES 37-707 OA12 02A LEFT VERTICAL

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = [illegible] INCHES YMRP = .0000 INCHES
BREF = 79.8491 INCHES ZMRP = .0000 INCHES
SCALE = [illegible] SCALE

PARAMETRIC DATA

ALPHA = [illegible] RUDDER = .000
ELEVON = .000 RUDFLR = [illegible]

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -5.560

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2480	.1890	.1020	.2240	.2190
.050	-.1440	.1730	.2770	.3000	.2800
.150	-.0810	.1360	.2260	.2590	.2540
.300	-.0660	.1000	.1840	.2110	.2130
.520	-.1100	.0620	.1270	.2550	.3210
.650	-.1650	.2700	.4020	.4550	.1390
.775	-.1560	.2830	.3060	.4720	.0810
.900		.0000	.3620	.4250	-.0180

MACH (1) = 2.498 BETA (2) = .420

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5190	.4250	.2830	.3020	.2350
.050	.0500	.1090	.0540	.0540	.0560
.150	.1040	.1310	.0930	.0890	.0850
.300	.0060	.0630	.0650	.0880	.1050
.520	-.0450	.0260	.0840	.1740	.1500
.650	-.1410	.1720	.2510	.2880	.0460
.775	-.1460	.1500	.2330	.3110	-.0070
.900		.0000	.2260	.2720	-.0580

MACH (1) = 2.498 BETA (3) = 6.340

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1080	.2490	.2860	.2760	.1800
.050	.1170	-.0630	-.0900	-.0880	-.0550
.150	.1390	.0180	-.0940	-.0770	-.0550
.300	.0630	.0150	-.0820	-.0550	-.0420
.520	.0070	-.0070	-.0190	-.0350	-.0650
.650	-.1140	.1140	.1070	.0100	-.0770
.775	-.1020	.1090	.0790	.0810	-.0800
.900		.0000	.0660	.1190	-.1020

MACH (2) = 3.502 BETA (1) = -5.540

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1780	.0500	.1780	.2600	.2410
.050	-.0830	.1020	.2040	.2330	.2290
.150	-.0700	.0940	.1850	.2080	.2090
.300	-.0460	.0720	.1660	.1790	.1740
.520	-.0580	.0560	.1210	.1950	.2610
.650	-.0880	.1640	.3140	.3420	.1230
.775	-.0930	.1560	.3040	.3500	.0580
.900		.0000	.3030	.3330	.0190

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AMES 87-707 OA12 OEA LEFT VERTICAL

SECTION (1)LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = .420

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2940	.2690	.2140	.2640	.2190
.050	-.0010	.0660	.0150	.0310	.0390
.150	.0480	.0770	.0470	.0440	.0490
.300	-.0180	.0340	.0560	.0660	.0670
.520	-.0530	.0090	.0640	.0810	.0650
.650	-.0860	.0980	.1480	.1130	.0070
.775	-.0950	.0910	.1590	.2240	-.0020
.900		.0000	.1600	.2080	-.0180

MACH (2) = 3.502 BETA (3) = 6.320

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2010	.2130	.2590	.2850	.2070
.050	.0400	-.0500	-.0610	-.0410	-.0280
.150	.0820	-.0350	-.0520	-.0290	-.0150
.300	.0480	-.0260	-.0410	-.0180	-.0060
.520	.0050	-.0300	-.0110	-.0090	-.0160
.650	-.0590	.0310	-.0010	-.0010	-.0380
.775	-.0620	.0580	.0170	.0150	-.0510
.900		.0000	.0350	.0400	-.0660

DATE 31 DEC 73 TABULATED PRESSURE DATA - OA12C

AMES 87-FOOT OA12 02A RIGHT VERTICAL (REGRID1) (15 JAN 74)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 33.8490 INCHES YMRP = .0000 INCHES
HREF = 33.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000
ELEVON = .000 RUDFLR = +0.000

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = -.030

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7580	.7320	.5990	.6770	.5680
.050	.1150	.1440	.1050	.0360	.0430
.150	.2730	.2160	.1620	.1010	.0770
.300	.1670	.2010	.1680	.1290	.1270
.520	.1221	.1070	.1360	.1360	.1730
.650	-.0490	.3060	.4040	.4740	.0590
.775	-.0810	.2100	.4080	.4950	.0930
.900		.2160	.0640	.4500	.0500

MACH (1) = 2.498 ALPHA (2) = 4.360

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7170	.6540	.5210	.5720	.4630
.050	.0520	.0590	.0700	.0320	.0630
.150	.2110	.1380	.1260	.1140	.1050
.300	.1040	.1190	.1510	.1390	.1500
.520	.0670	.0340	.1160	.1890	.1630
.650	-.0800	.2830	.3600	.3280	.0420
.775	-.0130	.2550	.3570	.4530	.0620
.900		.2080	.3260	.4120	.0120

MACH (1) = 2.498 ALPHA (3) = 9.370

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5950	.4990	.3810	.4200	.3300
.050	.0780	.0500	.0370	.0270	.0310
.150	.1530	.1190	.0810	.0770	.0730
.300	.0420	.0750	.1010	.0960	.0930
.520	.0270	.0180	.0710	.1430	.1540
.650	-.1020	.2120	.2830	.2880	.0320
.775	-.0860	.2010	.2770	.3450	.0150
.900		.1750	.2580	.3160	-.0380

MACH (1) = 2.498 ALPHA (4) = 14.890

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5230	.4480	.2850	.3040	.2310
.050	.0980	.0850	.0450	.0120	.0100
.150	.1550	.1310	.0770	.0470	.0390
.300	.0302	.0680	.0590	.0590	.0140
.520	-.0480	-.0020	.0400	.1140	.1530
.650	-.1210	.1570	.2020	.2330	.0070
.775	-.1250	.1470	.2050	.2520	-.0050
.900		.1470	.1860	.2240	-.0550

AMES 87-707 OA12 O2A RIGHT VERTICAL (RBQR01)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.493 ALPHA (5) = 19.870

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4990	.5730	.2430	.2190	.1540
.050	.0180	.1440	.0700	.0250	.0200
.150	.0490	.1030	.0940	.0500	.0420
.300	-.0600	-.0130	.0480	.0480	.0380
.520	-.1190	-.0910	.0080	.0830	.1040
.650	-.1670	.0200	.1740	.1780	-.0210
.775	-.1750	.0440	.1820	.1910	-.0340
.900		.0040	.1650	.1710	-.0750

MACH (2) = 3.502 ALPHA (1) = -.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7010	.6780	.5920	.6910	.5830
.050	.0730	.0550	.0590	.0760	.0790
.150	.1400	.0870	.0600	.0630	.0690
.300	.1310	.1170	.0640	.1030	.1070
.520	.0960	.1090	.1020	.1070	.0880
.650	-.0130	.2540	.2000	.1030	.0120
.775	.0220	.2440	.3480	.2330	-.0150
.900		.2220	.3350	.3120	-.0120

MACH (2) = 3.502 ALPHA (2) = 5.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6740	.5390	.5040	.5150	.4300
.050	.0300	.0450	.0520	.0560	.0560
.150	.0570	.0730	.0570	.0510	.0490
.300	.0690	.0940	.0700	.0790	.0750
.520	.0470	.0650	.0980	.0890	.0660
.650	-.0350	.1920	.1820	.1020	.0000
.775	-.0200	.2000	.3060	.2220	-.0180
.900		.1880	.2870	.3000	-.0150

MACH (2) = 3.502 ALPHA (3) = 10.150

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3880	.4040	.3510	.4220	.3420
.050	.0260	.0250	.0260	.0410	.0480
.150	.0880	.0610	.0450	.0430	.0450
.300	.0330	.0550	.0550	.0710	.0700
.520	.0050	.0160	.0870	.0770	.0530
.650	-.0500	.0750	.0920	.0730	-.0120
.775	-.0490	.1250	.1990	.2200	-.0370
.900		.1120	.1970	.2570	-.0290

MACH (2) = 3.502 ALPHA (4) = 15.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2980	.3150	.2390	.2700	.2170
.050	.0140	.0440	.0150	.0160	.0210
.150	.0780	.0820	.0370	.0270	.0270
.300	.0160	.0440	.0440	.0420	.0530

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AMES 87-707 OA12 OCA RIGHT VERTICAL (REGR01)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.502 ALPHA (4) = 15.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0360	-.0040	.0410	.0660	.0450
.650	-.0730	.0650	.1290	.0750	-.0170
.775	-.0770	.0990	.1490	.2100	-.0280
.900		.0900	.1410	.1890	-.0200

MACH (2) = 3.502 ALPHA (5) = 20.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2000	.3400	.1710	.1640	.1210
.050	-.0240	.0110	.0290	.0120	.0080
.150	-.0200	.0340	.0490	.0230	.0200
.300	-.0290	-.0220	.0540	.0380	.0270
.520	-.0630	-.0720	.0270	.0610	.0750
.650	-.0910	-.0600	.1160	.1270	.0170
.775	-.0950	-.0350	.1500	.1380	-.0140
.900		-.0410	.1550	.1330	-.0290

AMES 67-707 OA12 02A RIGHT VERTICAL (RBQR02) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -3.300

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.4350	.7230	.5360	.6560	.5740
.050	.1850	.0170	-.0240	-.0070	.0020
.150	.1730	.0340	.0320	.0190	.0620
.300	.1090	.1390	.0400	.0770	.0820
.520	.0560	.0620	.1210	.0830	.0690
.650	-.0470	.2210	.3220	.0960	-.0180
.775	-.0500	.1660	.3360	.3850	.0020
.900		.1340	.3050	.4090	-.0040

MACH (1) = 2.498 BETA (2) = 3.060

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.4630	.7760	.6200	.6720	.5460
.050	.2600	.3330	.3020	.2520	.2410
.150	.2540	.3490	.3310	.3090	.2910
.300	.1850	.2450	.2790	.2990	.2900
.520	.1470	.1490	.2550	.3730	.3980
.650	-.0290	.4350	.5320	.4590	.1590
.775	-.0030	.3940	.5080	.6290	.1470
.900		.3350	.4630	.5530	.0770

MACH (2) = 3.502 BETA (1) = -3.410

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.4580	.6520	.5630	.6780	.5900
.050	.0880	.0030	.0170	.0370	.0360
.150	.1330	.0310	.0130	.0220	.0250
.300	.0650	.0320	.0210	.0510	.0490
.520	.0300	.0520	.0470	.0550	.0440
.650	-.0260	.1480	.0610	.0600	-.0130
.775	-.0150	.1620	.1730	.1190	-.0310
.900		.1380	.2680	.1970	-.0440

MACH (2) = 3.502 BETA (2) = 3.190

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.4680	.6880	.6030	.6850	.5580
.050	.1720	.1580	.1050	.2180	.1230
.150	.1740	.1910	.1260	.1110	1170
.300	.1380	.2420	.1470	.1550	.1660
.520	.1110	.1520	.1770	.1590	.1390
.650	-.0020	.3740	.4360	.1710	.0490
.775	.0250	.3620	.4220	.4110	.0540
.900		.3250	.4060	.4700	.0660

AMES 67-707 OA12 02A RIGHT VERTICAL (RB&B03) 13 JUL 73

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0100 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = .000 FLAPLR = 40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2010	.2540	.2820	.3500	.3280
.050	.1470	-.0460	-.1070	-.1280	-.1370
.150	.1250	.0100	-.0910	-.1180	-.0870
.300	.0460	-.0240	-.1060	-.0810	-.0660
.520	.0150	-.0640	-.0590	-.0670	-.0780
.650	-.0990	.0070	.0260	-.0510	-.1370
.775	-.0920	.0040	.0720	.0850	-.1120
.900		-.0050	.0800	.1200	-.1200

MACH (1) = 2.498 BETA (2) = -3.340

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1980	.3500	.3600	.4070	.3440
.050	.1630	-.0100	-.0360	-.0540	-.0640
.150	.1800	.0640	-.0150	-.0390	-.0210
.300	.0960	.0260	-.0220	.0030	.0170
.520	.0400	-.0140	.0250	.0240	-.0030
.650	-.0980	.0590	.1760	.0640	-.0850
.775	-.0770	.0240	.1920	.2650	-.0700
.900		.0340	.1640	.2430	-.0630

MACH (1) = 2.498 BETA (3) = 3.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2270	.3890	.4080	.4150	.3110
.050	.0380	.2120	.2290	.2290	.2250
.150	.1120	.1750	.2170	.2230	.2210
.300	.0470	.1150	.1680	.1960	.2120
.520	.0150	.0540	.1480	.2430	.2200
.650	-.1050	.2490	.3300	.2690	.0500
.775	-.0940	.2590	.3750	.4480	.0850
.900		.2490	.3450	.4040	.0120

MACH (1) = 2.498 BETA (4) = 6.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1980	.3020	.3800	.3650	.2550
.050	.1400	.2840	.3440	.3520	.3360
.150	.1570	.2200	.2920	.3000	.2970
.300	.0610	.1520	.2210	.2530	.2760
.520	.0170	.0770	.1430	.2650	.2990
.650	-.1080	.2940	.4680	.5230	.1700
.775	-.0980	.3240	.4350	.4990	.1070
.900		.3280	.4200	.4690	.0310

AMES 87-707 OA12 02A RIGHT VERTICAL (RBORD3)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.740

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0960	.2370	.3000	.3860	.3430
.050	.0200	-.0350	-.0510	-.0450	-.0500
.150	.0330	-.0390	-.0430	-.0580	-.0540
.300	-.0020	-.0190	-.0480	-.0380	-.0360
.520	-.0200	-.0320	-.0350	-.0340	-.0440
.650	-.0600	-.0080	-.0120	-.0340	-.0690
.775	-.0550	-.0080	.0140	-.0040	-.0540
.900		-.0170	.0240	.0480	-.0750

MACH (2) = 3.502 BETA (2) = -3.460

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0960	.2650	.3420	.4250	.3560
.050	.0380	-.0030	-.0170	-.0020	.0010
.150	.0790	.0200	-.0160	-.0060	-.0030
.300	.0590	.0100	-.0030	.0190	.0180
.520	.0310	-.0120	.0160	.0210	.0120
.650	-.0460	.0170	.0460	.0270	-.0330
.775	-.0380	.0030	.1260	.0760	-.0430
.900		.0170	.1250	.1400	-.0520

MACH (2) = 3.502 BETA (3) = 3.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1100	.2990	.3790	.4200	.3320
.050	.0020	.1120	.1050	.0953	.0990
.150	.0530	.1070	.1365	.1090	.1050
.300	.0260	.0350	.1340	.1300	.1340
.520	-.0010	.0430	.1100	.1580	.1310
.650	-.0590	.1440	.2020	.1780	.0320
.775	-.0530	.1590	.2800	.3550	.0340
.900		.1750	.2620	.3460	.0250

MACH (2) = 3.502 BETA (4) = 6.440

Z/BV	.158	.316	600	.840	.925
X/CV					
.000	.0530	.2700	.3750	.3940	.2900
.050	.0900	.1990	.2400	.2260	.2160
.150	.1140	.1890	.2340	.2270	.2170
.300	.0480	.1460	.2050	.2150	.2140
.520	.0080	.0630	.1510	.2420	.2350
.650	-.0530	.2210	.3540	.3530	.1180
.775	-.0420	.2420	.3870	.4310	.1060
.900		.2530	.3320	.4000	.0540

AMES 87-707 OA12 OGA RIGHT VERTICAL FS(804) (16

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	52.3000 INCHES		
LREF =	39.0490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.0490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	.000
ELEVON =	.000	FLAPLR =	40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3150	.0640	.0250	.1410	.1440
.050	.1890	.0780	-.1200	-.1460	-.1350
.150	.2480	.0530	-.1180	-.1430	-.1320
.300	.0820	.0200	-.0940	-.1320	-.1180
.520	-.0320	-.0060	-.0830	-.0990	-.0900
.650	-.1450	.1310	-.0780	-.0760	-.1160
.775	-.1360	.1450	-.0980	.0220	-.1030
.900		.1640	-.1090	.0370	-.1510

MACH (1) = 2.498 BETA (2) = -3.310

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2450	.0970	.2460	.2470	.1970
.050	.2120	.1060	-.0750	-.1120	-.1100
.150	.2730	.1010	-.0590	-.0860	-.0760
.300	.0770	.0570	-.0490	-.0640	-.0550
.520	-.0230	-.0200	-.0140	-.0280	-.0390
.650	-.1200	.0990	.1400	.0710	-.0880
.775	-.1130	.0980	.1410	.1740	-.0640
.900		.0950	.1180	.1590	-.0840

MACH (1) = 2.498 BETA (3) = 3.050

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3030	-.0290	.3100	.2370	.1430
.050	-.1170	-.1790	.2070	.1960	.1790
.150	-.0990	-.1610	.1570	.1560	.1490
.300	-.1100	-.1200	.0950	.1190	.1190
.520	-.1560	-.1240	.0500	.1420	.1270
.650	-.1730	-.0710	.2890	.1840	-.0080
.775	-.1630	-.0780	.3050	.3130	.0060
.900		-.0960	.2910	.2910	-.0580

MACH (1) = 2.498 BETA (4) = 6.240

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3660	.0540	.1480	.1580	.0740
.050	-.0630	-.1640	.1870	.2560	.2270
.150	-.0710	-.1310	.1370	.1870	.1870
.300	-.1140	-.0960	.0870	.1470	.1500
.520	-.1450	-.1070	.0490	.1510	.1790
.650	-.1740	-.0360	.2360	.3370	.0730
.775	-.1660	-.0230	.2800	.3400	.0240
.900		-.0260	.2570	.3230	-.0310

AMES 87-707 OA12 O2A RIGHT VERTICAL (RBQR04)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (1) = -6.710

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2160	.0570	-.0140	.0910	.1150
.050	.0090	.0350	-.0610	-.1280	-.1310
.150	.0520	.0710	-.0770	-.1270	-.1260
.300	-.0180	.0310	-.0860	-.1270	-.1270
.520	-.0670	-.0130	-.1290	-.1270	-.1250
.650	-.0940	.0360	-.1290	-.1250	-.1260
.775	-.0950	.0580	-.1260	-.1210	-.0640
.900		.0320	-.1260	-.1170	-.0840

MACH (2) = 3.502 BETA (2) = -3.430

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1820	.0360	.2040	.2050	.1660
.050	.0000	.0220	-.0420	-.0520	-.0480
.150	.0840	.0740	-.0400	-.0520	-.0420
.300	.0060	.0570	-.0200	-.0340	-.0250
.520	-.0470	-.0010	-.0210	-.0230	-.0280
.650	-.0840	.0590	-.0220	.0020	-.0490
.775	-.0880	.0740	-.0170	.0540	-.0320
.900		.0540	.0000	.0640	-.0470

MACH (2) = 3.502 BETA (3) = 3.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2040	.0430	.2760	.2010	.1310
.050	-.0390	-.0840	.1740	.1430	.1360
.150	-.0420	-.0780	.1380	.1340	.1280
.300	-.0370	-.0720	.0990	.1170	.1100
.520	-.0660	-.0660	.0500	.0980	.1120
.650	-.0900	-.0460	.1770	.2220	.0450
.775	-.0980	-.0400	.1530	.2520	-.0070
.900		-.0340	.1190	.2520	-.0230

MACH (2) = 3.502 BETA (4) = 6.470

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2350	.0830	.0760	.1240	.0780
.050	-.0260	-.0600	.1410	.2120	.2010
.150	-.0080	-.0460	.1160	.1780	.1780
.300	-.0420	-.0320	.0810	.1420	.1560
.520	-.0600	-.0510	.0450	.1090	.1570
.650	-.0850	-.0190	.1830	.2470	.0740
.775	-.0880	-.0050	.1900	.2660	.0260
.900		.0090	.1880	.2630	.0010

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AMES 87-707 OA12 02A RIGHT VERTICAL (R03R05) ([illegible] 75)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8400 INCHES	YMRP =	.0000 INCHES		
DREF =	39.8400 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	-20.000
ELEVON =	.000	RUDDLR =	40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3790	.5720	.4760	.5980	.5630
.050	-.0070	-.0750	-.0540	.1650	.2430
.150	.0380	-.0560	-.0320	.1770	.2490
.300	.0130	-.0520	-.0210	.1960	.2460
.520	-.0100	-.0260	.1660	.1430	.0940
.650	-.0860	.4170	.2070	.1680	.0330
.775	-.0430	.5080	.4550	.2200	-.0500
.900		.4510	.6190	.3020	-.1110

MACH (1) = 2.498 BETA (2) = -3.300

Z/BV	.158	.316	.600		.925
X/CV					
.000	.4410	.7260	.5590	.6530	.5750
.050	.1860	.0170	-.0230	.2050	.3620
.150	.1460	.0370	.0410	.2230	.3810
.300	.1060	.1400	.0620	.2210	.3120
.520	.0550	.0620	.4460	.2580	.1750
.650	-.0420	.6300	.5230	.3110	.1230
.775	.0010	.6100	.6030	.5440	-.0020
.900		.5760	.7670	.8410	-.0690

MACH (1) = 2.498 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7940	.7280	.6010	.6720	.5581
.050	.1130	.1510	.0990	.2040	.0490
.150	.2400	.1910	.1560	.2160	.3710
.300	.1670	.2020	.2100	.3350	.4180
.520	.1230	.1060	.5820	.6980	.3640
.650	-.0420	.8330	.5910	.7360	.1680
.775	.0330	.7490	.9470	.8620	.0670
.900		.6820	.8640	.8310	-.0240

MACH (1) = 2.498 BETA (4) = 3.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4430	.7720	.6150	.6580	.5440
.050	.2490	.3240	.2940	.2730	.3330
.150	.2320	.3500	.3220	.3230	.3550
.300	.1790	.2430	.3460	.7020	.4150
.520	.1420	.1430	.7300	.8970	.7130
.650	-.0280	.9840	.7160	.8720	.1720
.775	.0540	.8650	1.0180	.8590	.1410
.900		.8030	.9340	.8710	-.0010

AMES 87-707 OA12 02A RIGHT VERTICAL (RB3R05)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3170	.6860	.5950	.6430	.5090
.030	.3560	.5180	.4680	.5930	.7220
.150	.3170	.4160	.4160	.6290	.8210
.300	.2160	.3000	.1440	.7470	.7570
.520	.1670	.1790	.7660	.8490	.6390
.650	-.0230	1.0350	.8170	.8580	.2790
.775	.0740	.9540	1.1030	1.0440	.1120
.900		.9560	1.0270	.9530	-.0150

MACH (2) = 3.501 BETA (1) = -6.670

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2530	.5610	.5320	.6640	.6030
.050	.0040	-.0380	-.0060	.0590	.0970
.150	.0020	-.0160	-.0110	.0780	.1000
.300	-.0030	-.0200	.0240	.0840	.1030
.520	-.0220	-.0140	.0350	.0810	.0460
.650	-.0560	.0810	.0530	.0910	.0330
.775	-.0530	.2220	.3000	.2240	-.0050
.900		.2780	.4560	.3770	-.0380

MACH (2) = 3.501 BETA . 2) = -3.420

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4550	.6510	.5650	.6780	.5930
.050	.0920	.0070	.0300	.1860	.2360
.150	.1190	.0340	.0560	.1960	.2450
.300	.0650	.0370	.0720	.2020	.2440
.520	.0330	.0550	.1030	.1370	.1490
.650	-.0220	.3710	.1540	.1630	.0820
.775	.0260	.5200	.4650	.2550	.0070
.900		.5040	.6940	.3790	-.0340

MACH (2) = 3.501 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6970	.6770	.5930	.6880	.5860
.050	.0740	.0550	.0540	.2610	.3510
.150	.1400	.0880	.0990	.2730	.3610
.300	.1300	.1190	.1120	.2380	.3460
.520	.0970	.1090	.2050	.2040	.1850
.650	-.0100	.6090	.3600	.2440	.1220
.775	.0350	.6400	.7750	.3720	.0190
.900		.6020	.8350	.5590	-.0190

MACH (2) = 3.501 BETA (4) = 3.190

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4790	.5940	.6080	.6880	.5700
.050	.1720	.1600	.1090	.3130	.4620
.150	.1630	.1920	.1350	.3410	.4590
.300	.1430	.2420	.1820	.2850	.3970

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AMES 67-707 OA12 O2A RIGHT VERTICAL (RECORD5)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.180

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.1150	.1510	.5640	.3060	.2600
.650	.0040	.8650	.5940	.3640	.1870
.775	.0510	.8450	.9110	.5400	.0630
.900		.7980	.9310	.8960	.0140

MACH (2) = 3.501 BETA (5) = 6.530

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2280	.6400	.5990	.6740	.5450
.050	.2430	.2850	.2020	.3070	.4510
.150	.2200	.3100	.2620	.3630	.4820
.300	.1940	.3160	.2860	.3550	.5080
.520	.1310	.1980	.6220	.7090	.4120
.650	.0100	.9850	.6600	.6970	.2720
.775	.0650	.9810	1.0240	.9410	.1400
.900		.9570	1.0150	1.1210	.0610

AMES 87-707 OA12 02A RIGHT VERTICAL (RBQR06) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.6490 INCHES YMRP = .0000 INCHES
BREF = 39.6490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.1940	.2560	.2850	.3480	.3260
.050	.1460	-.0450	-.0760	.0150	.0770
.150	.1100	.0110	-.0640	.0230	.0920
.300	.0470	-.0230	-.0640	.0330	.0910
.520	.0160	-.0590	.0290	.0450	.0200
.650	-.0940	.1170	.1060	.0760	-.0300
.775	-.0610	.1150	.3660	.2150	-.0820
.900		.0290	.4230	.3850	-.1430

MACH (1) = 2.498 BETA (2) = -3.340

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2090	.3560	.3670	.4140	.3510
.050	.1690	-.0060	-.0320	.0590	.1490
.150	.1630	.0640	-.0110	.0710	.1650
.300	.1000	.0260	.0070	.0810	.1430
.520	.0460	-.0110	.3040	.2120	.1390
.650	-.0380	.2050	.3580	.2540	.0480
.775	-.0550	.2310	.5880	.5610	-.0410
.900		.3000	.5250	.6070	-.0910

MACH (1) = 2.498 BETA (3) = -.160

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.6050	.4950	.3900	.4240	.3390
.050	.0780	.0550	.0400	.1170	.2020
.150	.1440	.1120	.0800	.1290	.2030
.300	.0460	.0770	.0960	.1950	.3130
.520	.0260	.0230	.4120	.5240	.3420
.650	-.0930	.6030	.4200	.3430	.0750
.775	-.0700	.5320	.6600	.6240	.0150
.900		.5290	.6270	.6250	-.0690

MACH (1) = 2.498 BETA (4) = 3.020

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2380	.3850	.4140	.4240	.3210
.050	.0310	.2070	.2290	.3100	.3930
.150	.0990	.1710	.2170	.3280	.4510
.300	.0440	.1160	.2480	.4440	.4960
.520	.0150	.0600	.5010	.4500	.3580
.650	-.0990	.5720	.5250	.5200	.1880
.775	-.0780	.6390	.8010	.7950	.0060
.900		.6530	.7470	.7250	-.0700

AMES 67-707 OA12 02A RIGHT VERTICAL (R8QR06)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.210

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1980	.3060	.3840	.3670	.2570
.050	.1370	.2870	.3410	.4290	.5050
.150	.1430	.2220	.2920	.4580	.5480
.300	.0620	.1510	.2670	.5190	.5730
.520	.0180	.0750	.5760	.6320	.5260
.650	-.1010	.6650	.5970	.6600	.2100
.775	-.0710	.7490	.9120	.8420	.0480
.900		.7690	.8400	.8060	-.0540

MACH (2) = 3.501 BETA (1) = -6.750

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0740	.2350	.3010	.3800	.3390
.050	.0240	-.0290	-.0470	.0180	.0370
.150	.0240	-.0360	-.0260	.0200	.0390
.300	-.0020	-.0280	-.0190	.0250	.0450
.520	-.0190	-.0230	.0090	.0100	.0090
.650	-.0560	.0500	.0240	.0170	-.0180
.775	-.0500	.0470	.1770	.1130	-.0390
.900		.0020	.2570	.2460	-.0540

MACH (2) = 3.501 BETA (2) = -3.450

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0880	.2540	.3410	.4220	.3570
.050	.0340	-.0030	-.0170	.0730	.1160
.100	.0570	.0230	.0010	.0850	.1210
.300	.0560	.0070	.0140	.0880	.1200
.520	.0300	-.0100	.0640	.0480	.0520
.650	-.0430	.0810	.1330	.0760	.0250
.775	-.0380	.0960	.3880	.2200	-.0180
.900		.1740	.4360	.4100	-.0460

MACH (2) = 3.501 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3850	.4040	.3510	.4210	.3420
.050	.0250	.0220	.0300	.1250	.1670
.150	.0840	.0590	.0500	.1350	.1730
.300	.0290	.0500	.0900	.1720	.1910
.520	-.0010	.0270	.1390	.1120	.1720
.650	-.0550	.4420	.2570	.1680	.0980
.775	-.0460	.3540	.5500	.3620	.0080
.900		.3460	.5100	.6480	-.0290

MACH (2) = 3.501 BETA (4) = 3.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1040	.3010	.3840	.4330	.3320
.050	.0090	.1160	.1140	.2070	.2380
.150	.0460	.1140	.1440	.2110	.2500
.300	.0290	.0300	.1520	.1920	.3260

AMES 87-707 OA12 02A RIGHT VERTICAL (RBQR06)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.140

Z/BV	.158	.316	.600	.640	.925
X/CV					
.520	.0010	.0500	.3190	.3230	.2340
.650	-.0570	.3650	.3840	.3730	.1450
.775	-.0550	.4620	.6510	.6930	.0340
.900		.5230	.6720	.7270	-.0020

MACH (2) = 3.501 BETA (5) = 6.440

Z/BV	.158	.316	.600	.640	.925
X/CV					
.000	.0380	.2360	.3640	.3870	.2800
.050	.0900	.1990	.2400	.2450	.3380
.150	.0970	.1820	.2290	.3100	.3260
.300	.0440	.1450	.2020	.3240	.3860
.520	.0050	.0800	.4320	.4960	.4320
.650	-.0590	.5290	.4600	.5110	.2170
.775	-.0550	.6110	.7410	.7620	.0660
.900		.6140	.7960	.8090	.0150

AMES 87-707 OA12 C2A RIGHT VERTICAL (RBQR07) (10 : 22)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	-20.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3230	.0660	.0290	.1380	.1450
.050	.1880	.0870	-.1060	-.0330	.0370
.150	.2310	.0600	-.1150	-.0230	.0480
.300	.0840	.0260	-.0490	-.0360	.0340
.520	-.0260	-.0060	.0100	.0170	-.0540
.650	-.1360	.3940	-.0060	.0500	-.1080
.775	-.1360	.4580	-.0040	.1660	-.1240
.900		.5010	-.0230	.1880	-.1740

MACH (1) = 2.498 BETA (2) = -3.320

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2420	.1010	.2490	.2470	.1970
.050	.2190	.1090	-.0620	.0040	.0870
.150	.2540	.1010	-.0560	.0160	.0900
.300	.0840	.0590	-.0460	.0050	.0550
.520	-.0200	-.0210	.2330	.1410	.0630
.650	-.1160	.4300	.2800	.1760	-.0230
.775	-.0870	.4490	.4160	.3500	-.0830
.900		.4570	.4290	.4350	-.1260

MACH (1) = 2.498 BETA (3) = -.150

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.5030	.5710	.2480	.2220	.1570
.050	.0180	.1520	.0750	.0420	.1060
.150	.0490	.1100	.0960	.0800	.1190
.300	-.0570	-.0080	.0550	.2760	.3030
.520	-.1160	-.0630	.2740	.3000	.2180
.650	-.1630	.4510	.3100	.2930	.0500
.775	-.1630	.3980	.5480	.4160	-.0420
.900		.2640	.5700	.4330	-.1140

MACH (1) = 2.498 BETA (4) = 3.040

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3110	-.0210	.3190	.2450	.1550
.050	-.1180	-.1820	.2030	.1960	.2760
.150	-.1010	-.1620	.1560	.2470	.2700
.300	-.1080	-.1210	.1130	.2550	.2960
.520	-.1560	-.0960	.3700	.3430	.2800
.650	-.1740	.0660	.5920	.3880	.1370
.775	-.1510	.0290	.7120	.7200	-.0320
.900		.0790	.6370	.6450	-.1000

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AMES 87-707 OA12 02A RIGHT VERTICAL

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

Z/BV	.158	.316	.600	840	.925
Y/CV					
.000	.3690	.0750	.1420	.1590	.0760
.050	-.0610	-.1650	.1790	.2410	.2470
.150	-.0720	-.1360	.1310	.2000	.2950
.300	-.1100	-.1000	.0920	.2990	.3820
.520	-.1450	-.0940	.3650	.4600	.4230
.650	-.1680	.1450	.5270	.4880	.1640
.775	-.1590	.1530	.5930	.6890	-.0260
.900		.2000	.5130	.6050	-.1000

MACH (2) = 3.501 BETA (1) = -6.710

Z/B	.158	.316	.600	.840	.925
X/CV					
.000	.2270	.0760	.0000	.0940	.1220
.050	.0090	.0400	-.0480	-.0090	.0100
.150	.0440	.0750	-.0680	-.0060	.0100
.300	-.0150	.0360	-.0610	-.0060	.0140
.520	-.0610	-.0110	-.0550	.0160	-.0060
.650	-.0880	.3520	-.0340	.0270	-.0570
.775	-.0890	.2650	-.0250	.0390	-.0610
.900		.1940	-.0200	.0560	-.0840

MACH (2) = 3.501 BETA (2) = -3.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1870	.0470	.2010	.2010	.1620
.050	.0010	.0320	-.0340	.0470	.0920
.150	.0770	.0790	-.0430	.0520	.0960
.300	-.0030	.0540	-.0250	.0300	.0670
.520	-.0530	-.0060	.0320	.0710	.0230
.650	-.0850	.3180	.1010	.0790	-.0210
.775	-.0870	.3350	.1290	.1180	-.0520
.900		.2150	.1600	.1710	-.0770

MACH (2) = 3.501 BETA (3) = -.150

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1900	.3430	.1700	.1600	.1180
.050	-.0260	.0060	.0370	.0250	.0520
.150	-.0200	.0270	.0550	.0330	.0540
.300	-.0310	-.0330	.0550	.1220	.1350
.520	-.0640	-.0560	.1490	.1960	.1750
.650	-.0890	.0490	.2440	.1950	.0640
.775	-.0910	.1290	.4750	.2890	-.0120
.900		.0280	.5160	.3140	-.0470

MACH (2) = 3.501 BETA (4) = 3.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2200	.0560	.2680	.2010	.1320
.050	-.0410	-.0840	.1700	.1470	.1380
.150	-.0460	-.0800	.1300	.1340	.1370
.300	-.0390	-.0780	.0970	.1310	.1770

AMES P7-TUT A12 CLA RIGHT VERTICAL (RB0507)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.101 BETA (4) = 3.160

Z/BV / X/CV	.158	.316	.500	.840	.925
.075	-.0690	-.0560	.1480	.3190	.2850
.600	-.0610	-.0160	.4680	.3030	.1240
.775	-.0900	.0330	.3190	.6350	-.0170
.900		.0690	.2790	.3850	-.0520

MACH (2) = 3.501 BETA (5) = 0.47

Z/BV / X/CV	.158	.316	.610	.840	.925
.060	.2350	.0880	.0770	.1200	.0770
.150	-.0270	-.0190	.1440	.2090	.2040
.150	-.0130	-.0450	.1160	.1790	.1900
.300	-.0450	-.0310	.0850	.1630	.2940
.520	-.0600	-.0420	.2350	.3360	.3480
.650	-.0840	.1010	.3450	.3440	.1490
.775	-.0850	.1340	.4550	.5730	.0020
.900		.2180	.4090	.5330	-.0360

AMES 87-707 OA12 OEA RIGHT VERTICAL (RBQR08) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3680	.5690	.4770	.6000	.5550
.050	.0100	-.0690	-.0990	-.0670	-.0620
.150	.0870	-.0520	-.0740	-.0420	-.0390
.300	.0140	-.0500	-.0460	-.0010	-.0030
.520	-.0100	-.0250	-.0120	.0050	-.0010
.650	-.0920	.1310	.0620	.0280	-.0790
.775	-.0930	.1180	.1370	.1100	-.0880
.900		.0520	.2080	.1510	-.0980

MACH (1) = 2.498 BETA (2) = -3.300

Z/BV / X/CV	.158	.316	.600	840	.925
.000	.4380	.7240	.5570	.6550	.5700
.050	.1850	.0150	-.0350	-.0050	.0040
.150	.1370	.0340	.0240	.0210	.0630
.300	.1030	.1370	.0470	.0770	.0840
.520	.0510	.0640	.1170	.0880	.0720
.650	-.0530	.2050	.3410	.1010	-.0100
.775	-.0540	.1560	.3320	.3590	.0000
.900		.1230	.3030	.4150	-.0060

MACH (1) = 2.498 BETA (3) = -.160

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.7970	.7300	.6000	.6720	.5680
.050	.1070	.1360	.0940	.0610	.0700
.150	.2310	.1990	.1540	.1240	.1040
.300	.1670	.1[illegible]	.2070	.1520	.1570
.520	.1190	.1060	.1[illegible]	.2240	.1940
.650	-.0560	.3420	.4300	.486[illegible]	0820
.775	-.0340	.3060	.4270	.5130	.0820
.900		.2490	.3850	.4700	.0440

MACH (1) = 2.498 BETA (4) = 3.060

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.4630	.7680	.6110	.6640	.5400
.050	.2540	.3230	.2900	.2370	.2260
.150	.2320	.3480	.3190	.2990	.2780
.300	.1840	.2430	.2750	.2910	.2770
.520	.1420	.1480	.2460	.3730	.3510
.650	-.0410	.4270	.5540	.4790	.1630
.775	-.0180	.3830	.5010	.6190	.1400
.900		.3260	.4620	.5510	.0670

AMES 87-707 OA12 02A RIGHT VERTICAL (RBGRDB)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3230	.6760	.5850	.6300	.4980
.050	.3510	.5120	.4570	.4460	.4470
.150	.3140	.4120	.4060	.4240	.4150
.300	.2160	.2940	.3420	.3760	.3810
.520	.1660	.1810	.2460	.4310	.4420
.650	-.0340	.4620	.6300	.6700	.2290
.775	.0030	.4570	.5630	.6720	.2010
.900		.4180	.5280	.6080	.1010

MACH (2) = 3.501 BETA (1) = -6.670

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2410	.5580	.5260	.6620	.5940
.050	.0050	-.0390	-.0190	.0030	.0020
.150	-.0010	-.0180	-.0230	-.0080	-.0070
.300	-.0070	-.0230	-.0260	-.0190	-.0170
.520	-.0250	-.0320	-.0070	.0060	-.0040
.650	-.0620	-.0060	.0300	.0170	-.0460
.775	-.0600	.0010	.0730	.0780	-.0470
.900		-.0010	.0980	.1160	-.0760

MACH (2) = 3.501 BETA (2) = -3.420

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4270	.6430	.5530	.6690	.5820
.050	.0960	.0050	.0160	.0330	.0320
.150	.1130	.0320	.0120	.0190	.0210
.300	.0600	.0340	.0100	.0440	.0450
.520	.0290	.0530	.0400	.0510	.0360
.650	-.0290	.1450	.0600	.0540	-.0160
.775	-.0190	.1520	.1660	.1120	-.0330
.900		.1290	.2590	.1910	-.0190

MACH (2) = 3.501 BETA (3) = -.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7240	.5720	.5870	.6840	.5800
.050	.0720	.0580	.0570	.0750	.0770
.150	.1330	.0890	.0570	.0840	.0670
.300	.1270	.1220	.0620	.1020	.1070
.520	.0980	.1120	.1020	.1090	.0860
.650	-.0100	.2600	.2210	.1030	.0030
.775	.0140	.2430	.3440	.2340	-.0180
.900		.2220	.3320	.3110	-.0160

MACH (2) = 3.501 BETA (4) = 3.190

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4510	.6860	.6030	.6830	.5580
.050	.1740	.1620	.1070	.1240	.1290
.150	.1600	.1920	.1280	.1170	.1220
.300	.1400	.2440	.1520	.1600	.1720

AMES 87-707 OA12 02A RIGHT VERTICAL (RBORDS)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.190

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.1140	.1600	.1830	.1680	.1480
.650	.0010	.3790	.4330	.1800	.0580
.775	.0160	.3630	.4240	.4130	.0570
.900		.3240	.4090	.4620	.0640

MACH (2) = 3.501 BETA (5) = 6.530

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2270	.6380	.5950	.6740	.5450
.050	.2390	.2820	.2020	.1880	.1960
.150	.2150	.3080	.2590	.2010	.1890
.300	.1840	.3130	.2860	.2290	.2340
.520	.1310	.1990	.2460	.2840	.2670
.650	.0080	.4350	.4990	.5070	.1720
.775	.0240	.4170	.5010	.6170	.1770
.900		.3990	.4680	.5980	.1340

AMES 87-707 OA12 O2A RIGHT VERTICAL (RBQR09) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2040	.2590	.2880	.3560	.3310
.050	.1480	-.0460	-.1030	-.1260	-.1200
.150	.1110	.0160	-.0840	-.1010	-.0710
.300	.0510	-.0210	-.0840	-.0690	-.0540
.520	.0200	-.0580	-.0480	-.0540	-.0610
.650	-.1000	.0040	.0390	-.0390	-.1160
.775	-.0830	.0060	.0800	.0920	-.1080
.900		-.0030	.0920	.1310	-.1160

MACH (1) = 2.498 BETA (2) = -3.340

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1970	.3560	.3640	.4120	.3450
.050	.1690	-.0060	-.0340	-.0660	-.0580
.150	.1590	.0680	-.0090	-.0330	-.0100
.300	.1040	.0290	-.0150	.0110	.0230
.520	.0500	-.0040	.0300	.0330	.0030
.650	-.0920	.0620	.1880	.0660	-.0780
.775	-.0670	.0290	.1940	.2670	-.0710
.900		.0390	.1660	.2500	-.0600

MACH (1) = 2.498 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6010	.4970	.3880	.4270	.3390
.050	.0840	.0520	.0400	.0260	.0310
.150	.1340	.1110	.0830	.0820	.0760
.300	.0490	.0770	.1070	.0980	.0980
.520	.0290	.0310	.0740	.1490	.1540
.650	-.0980	.2170	.2820	.2850	.0350
.775	-.0840	.2050	.2790	.3510	.0120
.900		.1780	.2590	.3180	-.0330

MACH (1) = 2.498 BETA (4) = 3.020

Z/BV	.159	.316	.600	.840	.925
X/CV					
.000	.2380	.3800	.4130	.4170	.3120
.050	.0350	.2030	.2350	.2230	.2270
.150	.0960	.1760	.2190	.2240	.2210
.300	.0490	.1180	.1830	.1950	.2040
.520	.0150	.0580	.1310	.2390	.2230
.650	-.1020	.2420	.3830	.2770	.0590
.775	-.1000	.2550	.3640	.4480	.0700
.900		.2420	.3460	.4080	.0070

AMES 87-707 OA12 O2A RIGHT VERTICAL (RB0R09)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1850	.2960	.3730	.3800	.2510
.050	.1380	.2910	.3410	.3360	.3300
.150	.1340	.2160	.2900	.2940	.2890
.300	.0630	.1480	.2200	.2510	.2480
.520	.0170	.0780	.1430	.2770	.2930
.650	-.1020	.2900	.4410	.5140	.4720
.775	-.1030	.3370	.4310	.4940	.0950
.900		.3210	.4150	.4040	.0220

MACH (2) = 3.501 BETA (1) = -6.750

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0650	.2240	.2920	.3730	.3260
.050	.0220	-.0350	-.0550	-.0430	-.0420
.150	.0190	-.0290	-.0480	-.0480	-.0460
.300	-.0070	-.0340	-.0410	-.0300	-.0260
.520	-.0250	-.0360	-.0250	-.0260	-.0390
.650	-.0650	-.0120	-.0060	-.0260	-.0630
.775	-.0190	-.0030	.0160	-.0020	-.0640
.900		-.0200	.0310	.0510	-.0840

MACH (2) = 3.501 BETA (2) = -3.450

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0860	.2970	.3400	.4230	.3550
.050	.0350	-.0050	-.0240	-.0070	-.0040
.150	.0510	.0220	-.0200	-.0120	-.0100
.300	.0530	.0040	-.0110	.0120	.0120
.520	.0290	-.0170	.0090	.0160	.0040
.650	-.0520	.0110	.0470	.0220	-.0380
.775	-.0360	-.0010	.1220	.0720	-.0460
.900		.0060	.1180	.1310	-.0550

MACH (2) = 3.501 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3720	.4000	.3490	.4190	.3410
.050	.0320	.0270	.0270	.0390	.0470
.150	.0830	.0660	.0490	.0440	.0460
.300	.0360	.0550	.0550	.0730	.0720
.520	.0070	.0220	.0780	.0760	.0560
.650	-.0510	.0810	.1340	.0750	-.0120
.775	-.0480	.1250	.1900	.2380	-.0310
.900		.1120	.1910	.2610	-.0270

MACH (2) = 3.501 BETA (4) = 3.150

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1050	.2930	.3760	.4280	.3300
.050	.0060	.1090	.1060	.0950	.1040
.150	.0390	.1070	.1380	.1150	.1070
.300	.0270	.0860	.1340	.1320	.1360

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AMES 67-707 OA12 O2A RIGHT VERTICAL

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0020	.0450	.1000	.1620	.1340
.650	-.0580	.1440	.2530	.1820	.0380
.775	-.0630	.1590	.2780	.3660	.0330
.900		.1730	.2620	.3470	.0280

MACH (2) = 3.501 BETA (5) = 6.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0480	.2700	.3670	.3900	.2810
.050	.0910	.1970	.2390	.2260	.2190
.150	.0900	.1840	.2290	.2280	.2190
.300	.0390	.1440	.1980	.2150	.2090
.520	.0030	.0800	.1470	.2350	.2360
.650	-.0600	.2110	.3420	.3680	.1280
.775	-.0600	.2340	.3340	.4280	.0900
.900		.2470	.3290	.3990	.0480

AMES 87-707 OA12 OEA RIGHT VERTICAL (RBQR10) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

Z/BV	.150	.316	.600	.840	.925
X/CV					
.000	.3300	.0770	.0290	.1380	.1420
.050	.1650	.1010	-.1130	-.1320	-.1160
.150	.2220	.0680	-.1110	-.1270	-.1110
.300	.0870	.0270	-.0790	-.1170	-.1030
.520	-.0240	-.0010	-.0670	-.0830	-.0690
.650	-.1370	.1320	-.0580	-.0580	-.1040
.775	-.1280	.1440	-.0770	.0400	-.1090
.900		.1610	-.0890	.0480	-.1490

MACH (1) = 2.498 BETA (2) = -3.320

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2550	.0940	.2500	.2510	.1990
.050	.2230	.1100	-.0680	-.1060	-.1050
.150	.2490	.0990	-.0530	-.0760	-.0650
.300	.0880	.0590	-.0440	-.0570	-.0470
.520	-.0150	-.0130	-.0060	-.0210	-.0340
.650	-.1190	.1020	.1490	.0660	-.0780
.775	-.1140	.1000	.1420	.1800	-.0620
.900		.1020	.1220	.1640	-.0800

MACH (1) = 2.498 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4970	.5520	.2480	.2280	.1570
.050	.0250	.1480	.0680	.0400	.0380
.150	.0530	.1140	.0950	.0650	.0590
.300	-.0590	-.0020	.0630	.0630	.0550
.520	-.1150	-.0840	.0250	.1010	.1260
.650	-.1680	.0280	.1920	.1960	-.0010
.775	-.1750	.0530	.1970	.2110	-.0370
.900		.0110	.1840	.1920	-.0730

MACH (1) = 2.498 BETA (4) = 3.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3070	-.0270	.3180	.2510	.1540
.050	-.1140	-.1820	.2040	.1960	.1880
.150	-.1010	-.1620	.1560	.1650	.1600
.300	-.1090	-.1180	.1120	.1260	.1250
.520	-.1540	-.1180	.0630	.1500	.1340
.650	-.1720	-.0660	.2950	.1910	.0040
.775	-.1620	-.0780	.3100	.3220	.0000
.900		-.0970	.2980	.3000	-.0470

AMES 87-707 CA12 C2A RIGHT VERTICAL (RBQR1D)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3770	.0640	.1450	.1600	.0750
.050	-.0580	-.1620	.1860	.2420	.2380
.150	-.0730	-.1320	.1390	.1970	.2000
.300	-.1070	-.0930	.0980	.1580	.1610
.520	-.1390	-.1030	.0580	.1190	.1950
.650	-.1680	-.0260	.3070	.3520	.0870
.775	-.1650	-.0190	.2880	.3580	.0160
.900		-.0240	.2600	.3340	-.0320

MACH (2) = 3.501 BETA (1) = -6.710

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2240	.0710	-.0020	.0960	.1220
.050	.0120	.0330	-.0610	-.0660	-.0630
.150	.0470	.0720	-.0750	-.0640	-.0600
.300	-.0140	.0310	-.0720	-.0620	-.0570
.520	-.0650	-.0110	-.0770	-.0430	-.0500
.650	-.0940	.0440	-.0630	-.0310	-.0610
.775	-.0950	.0580	-.0500	-.0230	-.0540
.900		.0300	-.0350	-.0230	-.0760

MACH (2) = 3.501 BETA (2) = -3.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1770	.0330	.2050	.2040	.1630
.050	.0040	.0200	-.0440	-.0460	-.0420
.150	.0790	.0730	-.0410	-.0470	-.0370
.300	.0030	.0530	-.0440	-.0260	-.0170
.520	-.0470	-.0020	-.0370	-.0130	-.0200
.650	-.0640	.0590	-.0040	.0090	-.0400
.775	-.0890	.0750	.0070	.0610	-.0340
.900		.0510	.0230	.0720	-.0470

MACH (2) = 3.501 BETA (3) = -.150

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1930	.3400	.1680	.1640	.1200
.050	-.0210	.0090	.0350	.0130	.0090
.150	-.0230	.0320	.0560	.0260	.0220
.300	-.0310	-.0290	.0530	.0430	.0310
.520	-.0650	-.0750	.0280	.0620	.0770
.650	-.0920	-.0630	.1160	.1260	.0150
.775	-.0960	-.0390	.1540	.1380	-.0140
.900		-.0470	.1540	.1330	-.0300

MACH (2) = 3.501 BETA (4) = 3.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2150	.0560	.2710	.2050	.1350
.050	-.0310	-.0850	.1730	.1460	.1370
.150	-.0450	-.0810	.1350	.1360	.1280
.300	-.0400	-.0750	.0930	.1190	.1100

AMES 87-707 OA12 02A RIGHT VERTICAL (RBQR10)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0700	-.0690	.0400	.0960	.1100
.650	-.0950	-.0520	.1720	.2220	.0440
.775	-.0940	-.0440	.1450	.2560	-.0050
.900		-.0360	.1210	.2570	-.0180

MACH (2) = 3.501 BETA (5) = 6.480

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2350	.0870	.0760	.1150	.0730
.050	-.0160	-.0580	.1460	.2120	.2040
.150	-.0100	-.0420	.1160	.1790	.1790
.300	-.0450	-.0290	.0830	.1420	.1560
.520	-.0600	-.0520	.0480	.1130	.1590
.650	-.0850	-.0180	.1900	.2480	.0770
.775	-.0890	-.0060	.1940	.2690	.0180
.900		.0100	.1960	.2650	-.0060

AMES 87-707 OA12 OBA RIGHT VERTICAL (RB8R11) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	.000
ELEVON =	-20.000	RUDFLR =	40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3700	.5690	.4730	.6000	.5640
.050	.0100	-.0650	-.0980	-.0710	-.0650
.150	.0900	-.0520	-.0720	-.0410	-.0420
.300	.0190	-.0450	-.0450	-.0030	-.0060
.550	-.0080	-.0230	-.0110	.0040	.0010
.650	-.0890	.1760	.0590	.0290	-.0760
.775	-.0920	.1240	.1050	.1110	-.0860
.900		.0570	.2070	.1460	-.0920

MACH (1) = 2.498 BETA (2) = -3.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4690	.7260	.5600	.6570	.5760
.050	.1920	.0140	-.0160	-.0110	-.0010
.150	.1470	.0440	.0320	.0140	.0570
.300	.1140	.1190	.0390	.0750	.0770
.520	.0590	.0710	.1130	.0320	.1710
.650	-.0450	.2190	.3210	.0980	-.0110
.775	-.0490	.1700	.3270	.3750	.0010
.900		.1370	.3040	.4110	-.0030

MACH (1) = 2.498 BETA (3) = -.220

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.8010	.7330	.6020	.6780	.5730
.050	.1100	.1510	.0870	.0610	.0680
.150	.0310	.1890	.1660	.1230	.1050
.300	.1130	.1020	.2130	.1520	.1510
.520	.1260	.1150	.1630	.2230	.1920
.650	-.0500	.2430	.4300	.4880	.0850
.775	-.0310	.2100	.4230	.5100	.0840
.900		.2180	.4030	.4700	.0490

MACH (1) = 2.498 BETA (4) = 3.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4460	.7700	.6120	.6660	.5420
.050	.2610	.3310	.2980	.2360	.2270
.150	.2370	.3540	.3250	.2960	.2750
.300	.1870	.2480	.2780	.2850	.2730
.520	.1450	.1490	.1990	.2670	.3660
.650	-.0370	.4260	.5120	.4690	.1610
.775	-.0170	.3830	.4920	.6160	.1330
.900		.3290	.4650	.5480	.0740

AMES 67-707 OA12 O2A RIGHT VERTICAL (RBQR11)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3210	.6750	.5840	.6260	.4950
.050	.3480	.5050	.4550	.4270	.4240
.150	.3080	.4080	.4030	.3960	.3900
.300	.2080	.2900	.3210	.3520	.3640
.520	.1640	.1780	.2260	.4140	.4260
.650	-.0340	.4610	.6260	.6620	.2090
.775	.0010	.4550	.5470	.6560	.1930
.900		.4090	.5110	.5930	.1000

MACH (2) = 3.502 BETA (1) = -6.670

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2340	.5650	.5340	.6730	.6110
.050	.0080	-.0310	-.0110	.0030	.0060
.150	.0070	-.0110	-.0140	-.0080	-.0060
.300	.0010	-.0150	-.0240	-.0170	-.0140
.520	-.0160	-.0210	-.0060	.0090	.0010
.650	-.0540	.0040	.0300	.0190	-.0480
.775	-.0530	.0090	.0760	.0770	-.0350
.900		.0050	.0990	.1170	-.0600

MACH (2) = 3.502 BETA (2) = -3.410

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4240	.5490	.5570	.6750	.5910
.050	.1010	.0090	.0230	.0430	.0420
.150	.1180	.0380	.0180	.0290	.0300
.300	.0670	.0390	.0190	.0540	.0530
.520	.0350	.0610	.0490	.0610	.0480
.650	-.0220	.1510	.0660	.0630	-.0080
.775	-.0120	.1610	.1790	.1210	-.0290
.900		.1330	.2640	.2000	-.0450

MACH (2) = 3.502 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7280	.6770	.5940	.6880	.5830
.050	.0720	.0580	.0600	.0740	.0780
.150	.1330	.0910	.0610	.0630	.0660
.300	.1290	.1210	.0590	.1000	.1050
.520	.0970	.1130	.1020	.1060	.0860
.650	-.0100	.2620	.2030	.1010	.0100
.775	.0160	.2470	.3480	.2330	-.0180
.900		.2260	.3350	.3100	-.0170

MACH (2) = 3.502 BETA (4) = 3.180

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4660	.6350	.6120	.6920	.5730
.050	.1770	.1670	.1120	.1290	.1300
.150	.1620	.1960	.1320	.1180	.1240
.300	.1420	.2470	.1550	.1620	.1730

AMES 87-707 OA12 02A RIGHT VERTICAL (R8QR11)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.1170	.1620	.1840	.1700	.1500
.650	.0030	.3600	.4370	.1350	.0590
.775	.0170	.3640	.4280	.4190	.0630
.900		.3280	.4140	.4180	.0730

MACH (2) = 3.502 BETA (3) = 6.330

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2230	.6430	.5990	.6730	.5490
.050	.2400	.2840	.2010	.1930	.2010
.150	.2170	.3080	.2590	.2040	.1950
.300	.1690	.3190	.2990	.2510	.2370
.520	.1330	.2030	.2510	.2880	.2700
.650	.0110	.4360	.5050	.5060	.1730
.775	.0230	.4220	.5020	.6250	.1770
.900		.4020	.4720	.6050	.1370

AMES 87-707 OA12 OBA RIGHT VERTICAL (RBQR12) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 59.8490 INCHES YMRP = .0000 INCHES
BREF = 59.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.330

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.2040	.2610	.2910	.3360	.3320
.050	.1530	-.0420	-.0990	-.1140	-.1060
.150	.1130	.0180	-.0830	-.0880	-.0590
.300	.0530	-.0150	-.0770	-.0550	-.0420
.520	.0210	-.0550	-.0280	-.0410	-.0530
.650	-.0960	.0060	.0470	-.0290	-.1020
.775	-.0810	.0100	.0880	.1040	-.1050
.900		.0010	.1030	.1400	-.1150

MACH (1) = 2.498 BETA (2) = -3.340

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.2050	.3590	.3700	.4160	.3510
.050	.1670	-.0070	-.0360	-.0560	-.0480
.150	.1600	.0660	-.0110	-.0240	.0030
.300	.1020	.0290	-.0070	.0200	.0280
.520	.0450	-.0050	.0380	.0380	.0090
.650	-.0930	.0580	.1780	.0730	-.0690
.775	-.0700	.0270	.1990	.2740	-.0640
.900		.0390	.1730	.2570	-.0520

MACH (1) = 2.498 BETA (3) = -.170

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.6000	.4990	.3920	.4250	.3380
.050	.0800	.0510	.0310	.0110	.0160
.150	.1310	.1120	.0820	.0630	.0580
.300	.0430	.0750	.0910	.0860	.0790
.520	.0260	.0260	.0570	.1280	.1320
.650	-.1030	.2120	.2590	.2840	.0200
.775	-.0880	.2000	.2660	.3360	.0080
.900		.1770	.2450	.3050	-.0350

MACH (1) = 2.498 BETA (4) = 3.020

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.2480	.3870	.4200	.4220	.3190
.050	.0360	.2110	.2370	.2290	.2320
.150	.0990	.1810	.2230	.2290	.2260
.300	.0510	.1220	.1780	.1990	.2060
.520	.0220	.0630	.1370	.2430	.2290
.650	-.1010	.2440	.3570	.2830	.0620
.775	-.0960	.2600	.3670	.4500	.0770
.900		.2460	.3470	.4120	.0150

AMES 67-707 OA12 O2A RIGHT VERTICAL (R50R12)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.1930	.3050	.3810	.3650	.2570
.050	.1390	.2850	.3440	.3490	.3450
.150	.1370	.2160	.2910	.3090	.3030
.300	.0640	.1500	.2360	.2630	.2600
.520	.0160	.0810	.1570	.2910	.3100
.650	-.1020	.2900	.4640	.5290	.1910
.775	-.1030	.3270	.4420	.5090	.1000
.900		.3220	.4280	.4790	.0300

MACH (2) = 3.502 BETA (1) = -6.750

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.0760	.2310	.2970	.3790	.3360
.050	.0200	-.0300	-.0530	-.0420	-.0400
.150	.0240	-.0370	-.0460	-.0460	-.0430
.300	-.0030	-.0300	-.0390	-.0250	-.0250
.520	-.0210	-.0330	-.0230	-.0230	-.0350
.650	-.0610	-.0050	-.0010	-.0170	-.0590
.775	-.0540	-.0020	.0210	.0040	-.0570
.900		-.0130	.0350	.0530	-.0780

MACH (2) = 3.502 BETA (2) = -3.460

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.0920	.2640	.3480	.4290	.3620
.050	.0390	.0010	-.0170	.0000	.0000
.150	.0580	.0280	-.0150	-.0050	-.0040
.300	.0590	.0100	-.0040	.0180	.0170
.520	.0340	-.0100	.0170	.0240	.0110
.650	-.0430	.0160	.0520	.0290	-.0300
.775	-.0290	.0050	.1300	.0790	-.0370
.900		.0120	.1220	.1390	-.0480

MACH (2) = 3.502 BETA (3) = -.160

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3790	.4070	.3540	.4250	.3460
.050	.0290	.0260	.0280	.0420	.0480
.150	.0840	.0650	.0480	.0450	.0490
.300	.0340	.0540	.0570	.0730	.0710
.520	.0070	.0190	.0900	.0790	.0560
.650	-.0510	.0830	.1000	.0770	-.0080
.775	-.0470	.1270	.2120	.2270	-.0340
.900		.1140	.1960	.2620	-.0250

MACH (2) = 3.502 BETA (4) = 3.140

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.1090	.3000	.3830	.4360	.3370
.050	.0060	.1150	.1100	.1020	.1100
.150	.0460	.1130	.1440	.1220	.1130
.300	.0310	.0910	.1410	.1360	.1410

AMES 67-707 OA12 02A RIGHT VERTICAL (RB0R12)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0060	.0500	.1130	.1700	.1400
.650	-.0540	.1470	.2160	.1680	.0420
.775	-.0570	.1640	.2870	.3720	.0370
.900		.1760	.2700	.3550	.0310

MACH (2) = 3.502 BETA (5) = 6.430

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0450	.2700	.3660	.3900	.2830
.050	.0930	.1970	.2410	.2280	.2220
.150	.0940	.1830	.2310	.2310	.2240
.300	.0400	.1450	.2010	.2160	.2120
.520	.0090	.0820	.1490	.2400	.2400
.650	-.0600	.2130	.3470	.3710	.1290
.775	-.0600	.2370	.3420	.4320	.0870
.900		.2490	.3540	.4050	.0470

AMES 67-707 CA12 C2A RIGHT VERTICAL (RBQR13) (15 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.6490 INCHES	YMRP =	.0000 INCHES		
BREF =	59.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALFHA =	20.000	RUDDER =	.000
ELEVON =	-20.000	RUDFLR =	40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3300	.0790	.0330	.1440	.1490
.050	.1830	.0980	-.1110	-.1280	-.1150
.150	.2230	.0720	-.1060	-.1230	-.1110
.300	.0840	.0310	-.0690	-.1150	-.0990
.520	-.0260	.0010	-.0660	-.0810	-.0640
.650	-.1370	.1330	-.0570	-.0570	-.1020
.775	-.1310	.1430	-.0760	.0390	-.1070
.900		.1540	-.0900	.0510	-.1430

MACH (1) = 2.498 BETA (2) = -3.330

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2560	.1060	.2540	.2480	.2000
.050	.2190	.1120	-.0660	-.1090	-.1080
.150	.2520	.1030	-.0530	-.0800	-.0700
.300	.0900	.0500	-.0350	-.0580	-.0530
.520	-.0150	-.0120	-.0130	-.0260	-.0370
.650	-.1160	.1050	.1400	.0540	-.0860
.775	-.1110	.1020	.1390	.1830	-.0680
.900		.1020	.1190	.1600	-.0800

MACH (1) = 2.498 BETA (3) = -.160

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.5020	.5630	.2480	.2260	.1590
.050	.0290	.1530	.0680	.0150	.0130
.150	.0500	.1120	.0950	.0420	.0350
.300	-.0610	-.0090	.0400	.0410	.0350
.520	-.1160	-.0830	.0040	.0810	.1080
.650	-.1660	.0370	.1720	.1780	-.0240
.775	-.1750	.0570	.1780	.1870	-.0400
.900		.0110	.1630	.1690	-.0730

MACH (1) = 2.498 BETA (4) = 3.040

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2990	-.0260	.3130	.2420	.1480
.050	-.1210	-.1780	.2090	.1980	.1880
.150	-.0960	-.1570	.1580	.1630	.1600
.300	-.1060	-.1180	.1060	.1280	.1260
.520	-.1520	-.1170	.0630	.1500	.1350
.650	-.1750	-.0660	.2960	.1910	.0040
.775	-.1660	-.0750	.3120	.3230	-.0120
.900		-.0950	.2980	.3020	-.0540

AMES 87-707 OA12 OEA RIGHT VERTICAL (RBOR13)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3720	.0700	.1440	.1580	.0750
.050	-.0650	-.1610	.1830	.2310	.2250
.150	-.0740	-.1310	.1370	.1880	.1890
.300	-.1080	-.0990	.0840	.1470	.1510
.520	-.1390	-.1050	.0500	.1480	.1820
.650	-.1700	-.0280	.2990	.3380	.0730
.775	-.1650	-.0210	.2790	.3410	.0080
.900		-.0230	.2500	.3190	-.0340

MACH (2) = 3.502 BETA (1) = -6.710

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2240	.0710	-.0010	.1010	.1270
.050	.0050	.0350	-.0580	-.0640	-.0610
.150	.0360	.0750	-.0700	-.0590	-.0570
.300	-.0070	.0360	-.0650	-.0590	-.0500
.520	-.0590	-.0070	-.0640	-.0400	-.0450
.650	-.0900	.0460	-.0610	-.0280	-.0590
.775	-.0930	.0640	-.0490	-.0250	-.0520
.900		.0360	-.0360	-.0190	-.0730

MACH (2) = 3.502 BETA (2) = -3.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1780	.0390	.2060	.2060	.1650
.050	-.0060	.0220	-.0420	-.0460	-.0400
.150	.0790	.0730	-.0420	-.0440	-.0340
.300	.0020	.0570	-.0390	-.0250	-.0150
.520	-.0480	-.0020	-.0230	-.0130	-.0190
.650	-.0830	.0590	-.0030	.0120	-.0400
.775	-.0890	.0730	.0080	.0630	-.0320
.900		.0330	.0260	.0730	-.0450

MACH (2) = 3.502 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1990	.3440	.1730	.1660	.1230
.050	-.0300	.0190	.0410	.0180	.0120
.150	-.0150	.0440	.0620	.0310	.0240
.300	-.0250	-.0210	.0550	.0430	.0340
.520	-.0590	-.0670	.0300	.0650	.0810
.650	-.0860	-.0530	.1190	.1280	.0170
.775	-.0910	-.0300	.1560	.1420	-.0120
.900		-.0410	.1590	.1360	-.0280

MACH (2) = 3.502 BETA (4) = 3.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2130	.0520	.2700	.2040	.1350
.050	-.0520	-.0840	.1730	.1450	.1360
.150	-.0470	-.0800	.1330	.1350	.1260
.300	-.0410	-.0750	.0920	.1170	.1110

DATE 10 SEP 75 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 02A RIGHT VERTICAL (RBQR13)

SECTION (1)RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0680	-.0680	.0390	.0960	.1090
.650	-.0940	-.0500	.1720	.2240	.0460
.775	-.0930	-.0420	.1460	.2540	-.0080
.900		-.0370	.1200	.2550	-.0190

MACH (2) = 3.502 BETA (5) = 6.470

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2320	.0880	.0720	.1150	.0710
.050	-.0360	-.0590	.1440	.2080	.1990
.150	-.0120	-.0460	.1130	.1770	.1760
.300	-.0470	-.0320	.0820	.1400	.1530
.520	-.0630	-.0550	.0450	.1080	.1580
.650	-.0880	-.0210	.1860	.2470	.0750
.775	-.0890	-.0050	.1930	.2680	.0120
.900		.0090	.1950	.2620	-.0080

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 O2A RIGHT VERTICAL (RD0R14) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3690	.5660	.4710	.5940	.5580
.050	.0030	-.0690	-.0960	-.0660	-.0590
.150	.0910	-.0500	-.0720	-.0370	-.0350
.300	.0180	-.0470	-.0410	.0050	.0[illegible]0
.520	-.0070	-.0210	-.0080	.0100	.0050
.650	-.0890	.1380	.0640	.0340	-.0700
.775	-.0910	.1260	.1390	.1130	-.0940
.900		.0560	.2090	.1510	-.1020

MACH (1) = 2.498 BETA (2) = -3.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4490	.7220	.5540	.6500	.5710
.050	.1910	.0210	-.0200	-.0050	.0050
.150	.1440	.0410	.0350	.0230	.0630
.300	.1070	.1480	.0450	.0780	.0850
.520	.0570	.0700	.1210	.0880	.0780
.650	-.0490	.2180	.3250	.1000	-.0050
.775	-.0900	.1650	.3370	.3930	-.0110
.900		.1350	.3080	.4170	-.0130

MACH (1) = 2.498 BETA (3) = -.170

Z/BV	.158	.316	.60.	.840	.925
X/CV					
.000	.7940	.7270	.5960	.6710	.5640
.050	.1060	.1480	.0900	.0640	.0710
.150	.2330	.1880	.1600	.1270	.1040
.300	.1670	.2020	.2090	.1550	.1550
.520	.1240	.1090	.1660	.2300	.2000
.650	-.0530	.3470	.4340	.4950	.0880
.775	-.0340	.3070	.4300	.5150	.0700
.900		.2480	.3840	.4750	.0420

MACH (1) = 2.498 BETA (4) = 3.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4390	.7660	.6060	.6620	.5380
.050	.2550	.3280	.2960	.2380	.2280
.150	.2310	.3550	.3210	.2970	.2760
.300	.1820	.2440	.2700	.2880	.2730
.520	.1420	.1480	.2420	.3670	.3620
.650	-.0400	.4260	.5220	.4640	.1640
.775	-.0200	.3840	.4940	.6200	.1120
.900		.3260	.4590	.5510	.0670

AMES 87-707 OA12 02A RIGHT VERTICAL (RB9R14)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3120	.6710	.5820	.6240	.4910
.050	.3490	.5070	.4570	.4450	.4430
.150	.3050	.4100	.4060	.4180	.4100
.300	.2080	.2900	.3390	.3700	.3830
.520	.1640	.1770	.2450	.4300	.4450
.650	-.0350	.4590	.6330	.6740	.2340
.775	-.0010	.4540	.5630	.6710	.1790
.900		.4120	.5260	.6100	.0990

MACH (2) = 3.503 BETA (1) = -6.670

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2460	.5570	.5250	.6620	.5980
.050	.0040	-.0350	-.0140	.0050	.0080
.150	.0010	-.0150	-.0180	-.0060	-.0040
.300	-.0020	-.0190	-.0260	-.0150	-.0120
.520	-.0210	-.0260	-.0050	.0110	.0040
.650	-.0570	-.0010	.0330	.0200	-.0450
.775	-.0570	.0060	.0760	.0790	-.0490
.900		.0040	.1010	.1200	-.0750

MACH (2) = 3.503 BETA (2) = -3.420

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4340	.6470	.5600	.6760	.5890
.050	.0970	.0070	.0200	.0370	.0390
150	.1160	.0350	.0160	.0230	.0260
.300	.0670	.0390	.0190	.0520	.0520
.520	.0340	.0800	.0480	.0580	.0450
.650	-.0220	.1480	.0640	.0610	-.0090
.775	-.0150	.1630	.1700	.1160	-.0330
.900		.1340	.2640	.1970	-.0490

MACH (2) = 3.503 BETA (3) = -.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7160	.6700	.5880	.6830	.5780
.050	.0730	.0570	.0600	.0760	.0790
.150	.1330	.0900	.0800	.0660	.0670
.300	.1270	.1210	.0630	.1000	.1050
.520	.0960	.1110	.1030	.1070	.0860
.650	-.0100	.2560	.1990	.1010	.0100
.775	.0110	.2420	.3490	.2350	-.0210
.900		.2260	.3350	.3130	-.0190

MACH (2) = 3.503 BETA (4) = 5.100

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4500	.5870	.6030	.6940	.5650
.050	.1720	.1520	.1080	.1250	.1280
.150	.1600	.1340	.1270	.1180	.1260
.300	.1410	.2060	.1550	.1640	.1730

AMES 87-707 CASE 024 RIGHT VERTICAL (RB0R14)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.180

Z/BV	.158	.316	.600	.840	.925
X/CV					
.320	.1150	.1530	.1880	.1710	.1480
.650	.0020	.3830	.4400	.1830	.0590
.775	.0170	.3620	.4270	.4140	.0480
.900		.3210	.4120	.4740	.0640

MACH (2) = 3.503 BETA (5) = 6.520

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2210	.6360	.9930	.8700	.5390
.050	.2440	.2810	.2020	.1870	.1950
.150	.2170	.3080	.2800	.2000	.1890
.300	.1880	.3150	.2840	.2270	.2320
.520	.1290	.1980	.2440	.2820	.2630
.650	.0080	.4310	.4990	.5080	.1680
.775	.0220	.4170	.4950	.6160	.1650
.900		.3960	.4690	.5980	.1310

AMES 87-707 OA12 OEA RIGHT VERTICAL (RBQR15) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.1930	.2540	.2840	.3490	.3250
.050	.1510	-.0420	-.1000	-.1110	-.1050
.150	.1150	.0170	-.0820	-.0880	-.0560
.300	.0530	-.0160	-.0760	-.0530	-.0410
.520	.0250	-.0530	-.0340	-.0400	-.0480
.650	-.0960	.0050	.0540	-.0260	-.1030
.775	-.0820	.0110	.0940	.1080	-.1160
.900		-.0020	1060	.1440	-.1210

MACH (1) = 2.498 BETA (2) = -3.340

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.2010	.3500	.3660	.4090	.3440
.050	.1700	-.0080	-.0330	-.0580	-.0500
.150	.1590	.0670	-.0100	-.0260	-.0060
.300	.1000	.0270	-.0030	.0170	.0290
.520	.0470	-.0070	.0350	.0390	.0090
.650	-.0950	.0570	.1900	.0760	-.0700
.775	-.0730	.0270	.2020	.2740	-.0770
.900		.0420	.1730	.2540	-.0630

MACH (1) = 2.498 BETA (3) = -.170

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.5970	.4970	.3905	.4250	.3370
.050	.0850	.0520	.0360	.0260	.0310
.150	.1320	.1130	.0820	.0790	.0750
.300	.0450	.0770	.1020	.1000	.0960
.520	.0280	.0280	.0710	.1460	.1550
.650	-.1000	.2160	.2790	.2950	.0350
.775	-.0870	.2020	.2790	.3510	.0020
.900		.1790	.2600	.3200	-.0340

MACH (1) = 2.498 BETA (4) = 3.020

Z/BV X/CV	.158	.316	.600	.840	.925
.000	.2450	.3800	.4150	.4170	.3130
.050	.0340	.2070	.2360	.2230	.2300
.150	.0960	.1770	.2220	.2260	.2240
.300	.0480	.1210	.1750	.1380	.2080
.520	.0170	.0620	.1360	.2400	.2220
.650	-.1010	.2460	.3740	.2760	.0570
.775	-.1000	.2580	.3660	.4500	.0600
.900		.2490	.3430	.4090	.0090

DI Z 10 SEP 73 TABULATED PRESSURE DATA - OA12C

AMES 87-707 OA12 OBA RIGHT VERTICAL (RBGR15)

SECTION (1):RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1860	.2940	.3760	.3590	.2500
.050	.1380	.2850	.3380	.3500	.3450
.150	.1370	.2180	.2910	.3070	.3060
.300	.0610	.1510	.2370	.2640	.2580
.520	.0190	.0800	.1560	.2880	.3020
.650	-.1020	.2890	.4540	.5270	.1900
.775	-.1040	.3260	.4410	.5080	.0850
.900		.3240	.4290	.4790	.0260

MACH (2) = 3.503 BETA (1) = -6.750

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0770	.2310	.2960	.3770	.3320
.050	.0180	-.0320	-.0540	-.0420	-.0390
.150	.0210	-.0420	-.0470	-.0460	-.0430
.300	-.0070	-.0300	-.0390	-.0280	-.0260
.520	-.0250	-.0340	-.0250	-.0230	-.0340
.650	-.0650	-.0090	.0000	-.0200	-.0570
.775	-.0580	-.0040	.0210	.0030	-.0580
.900		-.0150	.0360	.0540	-.0810

MACH (2) = 3.503 BETA (2) = -3.460

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0890	.2570	.3430	.4230	.3570
.050	.0380	.0040	-.0150	.0010	.0040
.150	.0590	.0290	-.0120	-.0040	.0010
.300	.0570	.0100	-.0030	.0200	.0200
.520	.0340	-.0090	.0170	.0260	.0120
.650	-.0430	.0180	.0530	.0270	-.0280
.775	-.0320	.0060	.1290	.0790	-.0420
.900		.0140	.1230	.1390	-.0520

MACH (2) = 3.503 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3750	.4010	.3520	.4210	.3430
.050	.0240	.0230	.0260	.0360	.0420
.150	.0820	.0620	.0450	.0400	.0410
.300	.0320	.0520	.0500	.0680	.0650
.520	.0020	.0160	.0830	.0730	.0500
.650	-.0550	.0800	.0890	.0710	-.0150
.775	-.0530	.1210	.1990	.2190	-.0360
.900		.1110	.1900	.2540	-.0270

MACH (2) = 3.503 BETA (4) = 3.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1070	.2970	.3820	.4300	.3340
.050	.0060	.1160	.1120	.1010	.1070
.150	.0430	.1140	.1430	.1180	.1110
.300	.0290	.0890	.1380	.1350	.1400

AMES 87-707 OA12 02A RIGHT VERTICAL (RBWR19)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0030	.0510	.1120	.1660	.1380
.650	-.0550	.1480	.2190	.1860	.0410
.775	-.0580	.1650	.2850	.3740	.0310
.900		.1800	.2680	.3530	.0280

MACH (2) = 3.503 BETA (5) = 6.430

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0400	.2680	.3670	.3870	.2790
.050	.0910	.1980	.2400	.2290	.2230
.150	.0920	.1820	.2300	.2320	.2220
.300	.0400	.1410	.1980	.2160	.2110
.520	.0020	.0780	.1470	.2370	.2370
.650	-.0620	.2120	.3450	.3690	.1260
.775	-.0610	.2350	.3370	.4300	.0810
.900		.2450	.3320	.4040	.0450

AMES 67-707 OA12 02A RIGHT VERTICAL (RBQR16) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = -40.000 RUDFLR = 40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3230	.0740	.0330	.1430	.1470
.050	.1860	.0870	-.1160	-.1310	-.1200
.150	.2240	.0630	-.1120	-.1260	-.1150
.300	.0880	.0280	-.0740	-.1190	-.1060
.520	-.0250	.0010	-.0700	-.0840	-.0660
.650	-.1390	.1300	-.0620	-.0630	-.1020
.775	-.1350	.1400	-.0830	.0360	-.1090
.900		.1590	-.0050	.0500	-.1490

MACH (1) = 2.498 BETA (2) = -3.320

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2580	.1030	.2500	.2430	.1960
.050	.2120	.1120	-.0690	-.1070	-.1060
.150	.2470	.1050	-.0550	-.0800	-.0690
.300	.0800	.0580	-.0450	-.0590	-.0490
.520	-.0220	-.0180	-.0080	-.0210	-.0320
.650	-.1190	.1030	.1470	.0640	-.0790
.775	-.1160	.0960	.1440	.1860	-.0720
.900		.0990	.1240	.1650	-.0860

MACH (1) = 2.498 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4960	.5590	.2400	.2160	.1490
.050	.0280	.1610	.0740	.0430	.0390
.150	.0490	.1130	.0960	.0670	.0580
.300	-.0610	-.0090	.0720	.0640	.0570
.520	-.1160	-.0870	.0290	.1040	.1290
.650	-.1660	.0310	.1960	.2000	-.0010
.775	-.1740	.0550	.2010	.2130	-.0520
.900		.0110	.1870	.1940	-.0830

MACH (1) = 2.498 BETA (4) = 3.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3010	-.0190	.3190	.2460	.1520
.050	-.1280	-.1800	.2060	.1950	.1910
.150	-.1030	-.1610	.1580	.1660	.1610
.300	-.1030	-.1230	.1060	.1290	.1290
.520	-.1540	-.1190	.0660	.1530	.1390
.650	-.1720	-.0680	.2990	.1930	.0100
.775	-.1630	-.0810	.3160	.3250	-.0110
.900		-.1000	.3010	.3050	-.0480

AMES 87-707 OA12 02A RIGHT VERTICAL (RB0916)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = 6.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3620	.0640	.1330	.1460	.0640
.050	-.0640	-.1620	.1790	.2390	.2360
.150	-.0730	-.1060	.1310	.1340	.2000
.300	-.1070	-.0990	.0950	.1590	.1610
.520	-.1410	-.1050	.0050	.1580	.1940
.650	-.1710	-.0270	.3010	.3470	.0830
.775	-.1660	-.0240	.2350	.3530	-.0060
.900		-.0050	.2580	.0290	-.0440

MACH (2) = 3.503 BETA (1) = -6.720

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2250	.0530	-.0030	.0970	.1240
.050	.0000	.0410	-.0610	-.0090	-.0640
.150	.0590	.0720	-.0720	-.0820	-.0580
.300	-.0140	.0320	-.0690	-.0610	-.0520
.520	-.0650	-.0120	-.0770	-.0430	-.0490
.650	-.0940	.0420	-.0530	-.0310	-.0620
.775	-.0060	.0550	-.0490	-.0280	-.0540
.900		.0690	-.0350	-.0220	-.0750

MACH (2) = 3.503 BETA (2) = -3.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1690	.0280	.1970	.1960	.1560
.050	-.0070	.0220	-.0430	-.0470	-.0420
.150	.0610	.0730	-.0410	-.0440	-.0340
.300	.0050	.0560	-.0410	-.0280	-.0180
.520	-.0480	-.0010	-.0230	-.0130	-.0210
.650	-.0830	.0520	-.0040	.0090	-.0400
.775	-.0900	.0760	.0080	.0520	-.0430
.900		.0560	.0260	.0720	-.0550

MACH (2) = 3.503 BETA (3) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1990	.3400	.1710	.1640	.1210
.050	-.0350	.0160	.0360	.0120	.0100
.150	-.0220	.0370	.0540	.0260	.0220
.300	-.0300	-.0270	.0540	.0400	.0300
.520	-.0630	-.0730	.0270	.0610	.0790
.650	-.0910	-.0590	.1170	.1290	.0160
.775	-.0920	-.0300	.1530	.1400	-.0150
.900		-.0420	.1560	.1340	-.0300

MACH (2) = 3.503 BETA (4) = 5.150

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2090	.0420	.2650	.2000	.1310
.050	-.0160	-.0870	.1730	.1450	.1390
.150	-.0490	-.0810	.1350	.1360	.1290
.300	-.0380	-.0770	.0960	.1190	.1130

AMES 87-707 OA12 OEA RIGHT VERTICAL (RB0R16)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0680	-.0670	.0410	.0980	.1120
.650	-.0940	-.0490	.1770	.2250	.0460
.775	-.0950	-.0410	.1500	.2560	-.0160
.900		-.0370	.1210	.2550	-.0260

MACH (2) = 3.503 BETA (5) = 6.470

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2550	.0860	.0780	.1180	.0760
.030	-.0400	-.0580	.1440	.2130	.2050
.150	-.0130	-.0450	.1150	.1810	.1840
.300	-.0460	-.0330	.0860	.1470	.1600
.520	-.0600	-.0520	.0520	.1170	.1620
.650	-.0850	-.0170	.1930	.2540	.0800
.775	-.0870	-.0030	.1980	.2720	.0140
.900		.0090	.1980	.2670	-.0030

AMES 67-707 OA12 O2A RIGHT VERTICAL (RBQR17) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = 15.200

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.5230	.4510	.2870	.3010	.2350
.050	.1170	.0740	.0360	.0160	.0110
.150	.1660	.1600	.0620	.0500	.0450
.300	.0440	.0650	.0720	.0680	.0630
.520	-.0320	-.0020	.0540	.1270	.1720
.650	-.1230	.1580	.2120	.2460	.0280
.775	-.1130	.1470	.2170	.2550	-.0260
.900		.1430	.1970	.2400	-.0570

MACH (1) = 2.498 ALPHA (2) = 20.250

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.4870	.5610	.2480	.2250	.1590
.050	.0610	.1290	.0340	.0090	.0080
.150	.0930	.1530	.0750	.0340	.0300
.300	-.0480	.0090	.0540	.0550	.0490
.520	-.1070	-.0720	.0180	.0940	.1220
.650	-.1630	.0580	.1740	.1910	-.0060
.775	-.1700	.0670	.1800	.1990	-.0470
.900		.0320	.1680	.1770	-.0760

MACH (1) = 2.498 ALPHA (3) = 25.180

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3730	.4390	.3020	.1640	.1040
.050	-.0380	.0550	.0700	.0340	.0290
.150	.0010	-.0330	.0900	.0510	.0400
.300	-.0720	-.1320	.0390	.0450	.0370
.520	-.1240	-.1640	-.0150	.0340	.0600
.650	-.1730	-.1350	.1390	.1470	-.0350
.775	-.1680	-.0950	.1500	.1690	-.0730
.900		-.1100	.1270	.1540	-.0900

MACH (1) = 2.498 ALPHA (4) = 30.150

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2640	.4130	.3070	.2350	.1480
.050	-.0670	-.0620	.0010	-.0110	-.0170
.150	-.0540	-.0860	-.0320	.0080	-.0040
.300	-.0990	-.1390	-.0830	-.0110	-.0120
.520	-.1340	-.1680	-.1190	-.0400	-.0300
.650	-.1770	-.1370	-.0230	.0600	-.0960
.775	-.1730	-.1100	.0140	.1020	-.1230
.900		-.1120	-.0110	.0940	-.1270

AMES 87-707 OA12 OBA RIGHT VERTICAL (RB9R17)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (5) = 35.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	1.1940	1.2210	1.3350	1.1960	.8400
.050	-.1270	-.1250	-.0490	-.0720	-.0770
.150	-.1260	-.1210	-.0640	-.0740	-.0700
.300	-.1290	-.1540	-.0920	-.0820	-.0800
.520	-.1590	-.1750	-.1300	-.0910	-.0800
.650	-.1840	-.1610	-.0510	-.0160	-.1290
.775	-.1840	-.1530	-.0460	.0190	.7490
.900		-.1640	-.0660	.0070	.6600

MACH (1) = 2.498 ALPHA (6) = 38.670

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0010	.0470	.0820	.0800	.0200
.050	-.1410	-.1670	-.1370	-.0670	-.0550
.150	-.1650	-.1700	-.1360	-.0750	-.0650
.300	-.1570	-.1770	-.1430	-.0860	-.0740
.520	-.1730	-.1900	-.1710	-.1040	-.0880
.650	-.1820	-.1820	-.1450	-.0310	-.1350
.775	-.1810	-.1820	-.1420	-.0120	-.1480
.900		-.1850	-.1560	-.0280	-.1420

MACH (2) = 3.501 ALPHA (1) = 15.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2900	.2910	.2320	.2560	.2140
.050	.0150	.0380	.0100	.0090	.0160
.150	.0830	.0670	.0340	.0210	.0240
.300	.0220	.0460	.0390	.0430	.0460
.520	-.0300	-.0030	.0410	.0590	.0350
.650	-.0750	.0690	.1150	.0670	-.0270
.775	-.0790	.0980	.1470	.1990	-.0370
.900		.0870	.1370	.1900	-.0280

MACH (2) = 3.501 ALPHA (2) = 20.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2000	.3400	.1680	.1620	.1200
.050	-.0230	.0060	.0190	.0020	-.0020
.150	-.0180	.0430	.0370	.0170	.0130
.300	-.0260	-.0030	.0500	.0280	.0210
.520	-.0600	-.0610	.0270	.0600	.0740
.650	-.0890	-.0450	.1170	.1260	.0170
.775	-.0930	-.0190	.1400	.1380	-.0200
.900		-.0320	.1470	.1310	-.0330

MACH (2) = 3.501 ALPHA (3) = 25.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2210	.2450	.2670	.1120	.0620
.050	-.0220	-.0180	.0880	.0240	.0180
.150	-.0380	-.0440	.0640	.0320	.0200
.300	-.0560	-.0770	.0100	.0330	.0290

AMES 87-707 OA12 02A RIGHT VERTICAL (RBQR17)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (3) = 25.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0730	-.0790	-.0240	.0270	.0360
.650	-.0910	-.0800	.0650	.0990	-.0060
.775	-.0920	-.0340	.0630	.1270	-.0430
.900		-.0380	.0240	.1280	-.0500

MACH (2) = 3.501 ALPHA (4) = 30.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1200	.1310	.1530	.2540	.1530
.050	- 0300	-.0570	-.0340	.0070	.0220
.150	-.0500	-.0670	-.0460	-.0060	.0110
.300	-.0660	-.0740	-.0530	-.0260	-.0030
.520	-.0800	-.0740	-.0550	-.0370	-.0220
.650	-.0950	-.0540	-.0040	.0270	-.0590
.775	-.0960	-.0500	.0030	.0570	-.0810
.900		-.0570	-.0090	.0450	-.0830

MACH (2) = 3.501 ALPHA (5) = 35.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0200	.0310	.0420	.0710	.0430
.050	-.0440	-.0760	-.0610	-.0460	-.0390
.150	-.0710	-.0760	-.0570	-.0480	-.0420
.300	-.0780	-.0750	-.0560	-.0510	-.0490
.520	-.0870	-.0960	-.0640	-.0480	-.0430
.650	-.0990	-.0820	-.0330	-.0070	-.0560
.775	-.0980	-.0830	-.0290	.0120	-.0806
.900		-.0920	-.0340	.0030	-.0770

MACH (2) = 3.501 ALPHA (6) = 38.630

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	-.0340	-.0050	-.0010	.0250	.0130
.050	-.0500	-.0860	-.0680	-.0600	-.0530
.150	-.0880	-.0900	-.0630	-.0500	-.0550
.300	-.0910	-.0950	-.0580	-.0580	-.0560
.520	-.0980	-.0970	-.0850	-.0590	-.0530
.650	-.0930	-.0990	-.0720	-.0300	-.0680
.775	-.0940	-.0960	-.0700	-.0150	-.0770
.900		-.0960	-.0760	-.0160	-.0780

AMES 87-707 CA12 OEA RIGHT VERTICAL (RB8X18) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 33.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2070	.4320	.1950	-.0740	-.1230
.050	-.1540	-.0600	-.0140	-.0710	-.1160
.150	-.1900	-.1110	.0020	-.0640	-.1240
.300	-.1740	-.1300	-.0320	-.0610	-.1170
.520	-.1720	-.1750	-.0570	-.0510	-.0820
.650	-.1930	-.1510	.0030	.0340	-.1180
.775	-.1690	-.1200	.0610	.0710	-.1250
.900		-.1240	.0390	.0700	-.1300

MACH (1) = 2.498 BETA (2) = -3.510

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.1140	.0930	.2670	-.0670	-.0270
.050	-.1590	-.1720	.1870	-.0300	-.0700
.150	-.1920	-.1740	.1300	-.0760	-.0750
.300	-.1810	-.1780	.0510	-.0690	-.0870
.520	-.1670	-.1700	-.0260	-.0360	-.0700
.650	-.1730	-.1480	.1320	.0020	-.1070
.775	-.1770	-.1190	.1300	.1170	-.1020
.900		-.1340	.0930	.1270	-.1300

MACH (1) = 2.498 BETA (3) = -.100

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2620	.4000	.3030	.2350	.1480
.050	-.0640	-.0670	-.0070	-.0060	-.0180
.150	-.0460	-.0910	-.0340	.0080	-.0030
.300	-.0950	-.1370	-.0910	-.0430	-.0130
.520	-.1340	-.1650	-.1260	-.0390	-.0320
.650	-.1760	-.1370	-.0300	.0540	-.0970
.775	-.1730	-.1100	-.0010	.1000	-.1240
.900		-.1130	-.0200	.0930	-.1240

MACH (1) = 2.498 BETA (4) = 3.060

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.0600	.0580	.1780	-.0900	-.0440
.050	.0760	.0030	-.1340	-.1870	-.2180
.150	.0330	-.0090	-.1270	-.1790	-.1140
.300	-.0480	-.0700	-.1490	-.1640	-.1180
.520	-.0990	-.1270	-.1460	-.1260	-.1020
.650	-.1670	-.0860	-.1240	-.0640	-.1420
.775	-.1700	-.0890	-.0940	-.0630	-.1550
.900		-.0970	-.0890	-.0710	-.1610

AMES 67-707 OA12 02A RIGHT VERTICAL (FBQR18)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1570	.4250	.1990	-.0860	-.1290
.050	.0670	.0220	.0920	-.1320	-.1210
.150	.0050	-.0030	-.0810	-.1290	-.1170
.300	-.0750	-.0830	-.0810	-.1060	-.0990
.520	-.1220	-.1320	-.0930	-.0790	-.0610
.650	-.1710	-.0770	.0000	-.0200	-.1060
.775	-.1740	-.0720	.0080	.0010	-.1340
.900		-.0780	.0100	.0100	-.1330

MACH (2) = 3.501 BETA (1) = -6.700

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0190	-.0150	.0940	.0510	.0125
.050	-.0570	-.0990	-.0750	-.0580	-.0560
.150	-.0810	-.1010	-.0770	-.0590	-.0550
.300	-.0960	-.1030	-.0780	-.0580	-.0540
.520	-.0970	-.1030	-.0840	-.0530	-.0450
.650	-.1050	-.0980	-.0590	-.0090	-.0670
.775	-.1010	-.0930	-.0370	.0210	-.0780
.900		-.0930	-.0450	.0130	-.0850

MACH (2) = 3.501 BETA (2) = -3.420

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0740	.0630	.0510	.1250	.0240
.050	-.0500	-.0920	-.0930	.0340	.0550
.150	-.0760	-.0900	-.0910	.0220	.0420
.300	-.0730	-.0900	-.0680	-.0010	.0230
.520	-.0820	-.0900	-.0700	-.0140	.0040
.650	-.0960	-.0770	-.0440	.0420	-.0480
.775	-.0990	-.0730	-.0370	.1010	-.0730
.900		-.0800	-.0500	.1110	-.0720

MACH (2) = 3.501 BETA (3) = -.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1230	.1350	.1570	.2550	.1610
.050	-.0300	-.0550	-.0320	.0080	.0190
.150	-.0490	-.0650	-.0430	-.0090	.0090
.300	-.0640	-.0700	-.0450	-.0260	-.0060
.520	-.0780	-.0720	-.0530	-.0360	-.0220
.650	-.0950	-.0530	-.0030	.0230	-.0580
.775	-.0950	-.0500	.0030	.0550	-.0770
.900		-.0550	-.0080	.0460	-.0790

MACH (2) = 3.501 BETA (4) = 3.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0720	.0820	.0740	.1190	.0490
.050	-.0310	-.0120	.0730	-.0250	-.0480
.150	-.0480	-.0240	.0600	-.0270	-.0540
.300	-.0720	-.0490	.0300	-.0110	-.0360

AMES 87-707 OA12 02A RIGHT VERTICAL (RB0718)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0840	-.0710	-.0080	-.0130	-.0130
.650	-.0980	-.0470	.0720	.0280	-.0420
.775	-.0980	-.0400	.0740	.0430	-.0630
.900		-.0450	.0570	.0410	-.0740

MACH (2) = 3.501 BETA (5) = 6.470

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0010	-.0090	.1460	.0610	.0040
.050	-.0410	-.0030	.1000	.0470	.0350
.150	-.0560	-.0060	.0700	.0410	.0280
.300	-.0710	-.0350	.0320	.0250	.0200
.520	-.0880	-.0610	-.0050	.0110	.0190
.650	-.1020	-.0240	.0260	.0800	-.0160
.775	-.1020	-.0030	.0820	.1040	-.0530
.900		.0020	.0570	.0880	-.0580

AMES 87-707 0418 02A RIGHT VERTICAL (SEC 13) (36 T

REFERENCE DATA

PARAMETRIC DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHA = 30.000 RUDDER = .000
ELEVON = .000 AILRON = .000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1730	.3940	.2040	-.0570	-.1250
.050	-.1810	-.1320	-.0640	-.0480	-.0990
.150	-.2120	-.1650	-.0440	-.0480	-.1030
.300	-.2050	-.1960	-.0430	-.0300	-.0260
.520	-.2060	-.1970	.0260	.1830	.0110
.650	-.2240	-.1140	.2040	.1283	-.0450
.775	-.2280	-.0020	.3650	.3180	-.1170
.900		-.0460	.2900	.3230	-.1450

MACH (1) = 2.498 BETA (2) = -3.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1210	.0080	.2860	-.0910	-.0930
.050	-.1800	-.2170	.1250	-.0400	-.0650
.150	-.2160	-.2130	.0680	-.0360	-.0710
.300	-.2110	-.2040	.0070	-.0040	-.0140
.520	-.1980	-.1800	.0500	.1850	.0210
.650	-.1980	-.1460	.3430	.2050	-.0170
.775	-.1940	-.0830	.4720	.4760	-.0630
.900		-.1210	.4040	.4910	-.1340

MACH (1) = 2.498 BETA (3) = -.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2380	.3590	.5480	.2150	.1390
.050	-.1760	-.0900	-.0160	-.0290	-.0330
.150	-.0765	-.1190	-.0550	-.0160	-.0220
.300	-.1130	-.1560	-.1020	-.0260	.0030
.520	-.1450	-.1560	-.0370	.1390	.0870
.650	-.1840	-.0460	.1400	.1570	-.0040
.775	-.1760	.0340	.3250	.4410	-.0840
.900		-.0160	.1690	.4100	-.1310

MACH (1) = 2.498 BETA (4) = 3.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0790	.0000	.1840	-.0380	-.1490
.050	.0870	.0140	-.1110	-.1650	-.1840
.150	.0200	-.0090	-.1100	-.1710	-.1770
.300	-.0560	-.0600	-.1120	-.1470	-.1
.520	-.1040	-.1140	-.0290	-.1060	-.1
.650	-.1650	.0920	.0350	-.0700	-.110
.775	-.1560	.0940	.1110	.0340	-.1540
.900		.0610	.1200	.0790	-.1

AMES 67-707 OA12 O2A RIGHT VERTICAL (RBQR19)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (3) = 6.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1500	.3510	.2270	-.0540	-.1230
.050	.0430	.0300	-.0690	-.1330	-.1230
.150	-.0110	-.0220	-.0630	-.1340	-.1080
.300	-.0980	-.0830	-.0760	-.0620	-.0230
.520	-.1320	-.1250	.0450	.0380	.0030
.650	-.1770	.1120	.1200	.0580	-.0760
.775	-.1740	.1020	.2360	.1500	-.1360
.900		.0860	.2190	.1380	-.1750

MACH (2) = 3.502 BETA (1) = -6.700

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	-.0020	-.0480	.0820	.0620	.0260
.050	-.0790	-.1280	-.1030	-.0650	-.0580
.150	-.1170	-.1280	-.1070	-.0720	-.0660
.300	-.1200	-.1300	-.0840	-.0670	-.0520
.520	-.1230	-.1260	-.0740	-.0120	-.0070
.650	-.1260	-.1150	-.0250	.0240	-.0500
.775	-.1250	-.1010	.0680	.1540	-.0680
.900		-.0930	.0480	.1520	-.0820

MACH (2) = 3.502 BETA (2) = -3.420

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0690	.0560	.0670	.1350	.0520
.050	-.0770	-.1170	-.1140	.0050	.0320
.150	-.1040	-.1150	-.1120	-.0080	.0190
.300	-.1060	-.1200	-.0730	-.0260	.0070
.520	-.1130	-.1140	-.0550	.0400	.0650
.650	-.1260	-.0730	-.0400	.1580	.0100
.775	-.1250	-.0410	-.0140	.3000	-.0590
.900		-.0700	.0080	.1650	-.0740

MACH (2) = 3.502 BETA (3) = -.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1050	.1150	.1350	.1910	.1630
.050	-.0460	-.0760	-.0500	-.0310	-.0110
.150	-.0690	-.0840	-.0640	-.0450	-.0260
.300	-.0840	-.0890	-.0770	-.0400	-.0150
.520	-.0960	-.0830	-.0090	.0530	0460
.650	-.1120	-.0040	.0510	.0730	-.0360
.775	-.1120	.0020	.1000	.1760	-.0640
.900		-.0070	.0710	.1700	-.0790

MACH (2) = 3.502 BETA (4) = 3.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0640	.0640	.1180	.1250	.0730
.050	-.0560	-.0560	.0800	-.0030	-.0250
.150	-.0780	-.0600	.0590	-.0030	-.0350
.300	-.0960	-.0740	.0340	.0050	.0240

AMES 67-707 OA12 C2A RIGHT VERTICAL (PB3R19)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 3.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.1080	-.0860	.0670	.0950	.0680
.650	-.1210	.0050	.2480	.1030	-.0070
.775	-.1190	.0180	.3040	.1980	-.0750
.900		.0470	.2300	.2170	-.0860

MACH (2) = 3.502 BETA (5) = 6.470

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	-.0160	-.0390	.1430	.0710	.0180
.050	-.0570	-.0200	.0780	.0550	.0360
.150	-.0790	-.0320	.0420	.0390	.0300
.300	-.0940	-.0590	.0180	.0390	.0730
.520	-.1090	-.0810	.0990	.1590	.1240
.650	-.1220	.0770	.1600	.1680	.0240
.775	-.1250	.0950	.2520	.2570	-.0630
.900		.1020	.1370	.2180	-.0740

AMES 67-707 GA12 G2A RIGHT VERTICAL (RBGR20) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0330 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = 10.000 RUDFLR = 40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE C_P

MACH (1) = 2.498 BETA (1) = -6.470

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.1790	.3660	.2080	-.0560	-.1340
.050	-.1450	-.1090	-.0270	-.0490	-.1050
.150	-.1870	-.1350	-.0140	-.0460	-.1090
.300	-.1820	-.1660	-.0510	-.0460	-.0940
.520	-.1810	-.1870	-.0930	-.0550	-.0700
.650	-.1960	-.1660	.0240	.0440	-.1150
.775	-.1890	-.1440	.0300	.0800	-.1380
.900		-.1470	.0080	.0710	-.1440

MACH (1) = 2.498 BETA (2) = -3.300

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.1070	-.0260	.2700	-.0940	-.1040
.050	-.1530	-.2040	.1220	-.0410	-.0750
.150	-.2010	-.1990	.0650	-.0360	-.0820
.300	-.1980	-.1940	-.0100	-.0230	-.0880
.520	-.1880	-.1850	-.0740	-.0260	-.0590
.650	-.1840	-.1720	.0570	.0840	-.0980
.775	-.1810	-.1560	.0670	.1350	-.1220
.900		-.1590	.0360	.1280	-.1250

MACH (1) = 2.498 BETA (3) = -.130

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2370	.3520	.5400	.2110	.1330
.050	-.0670	-.0790	-.0140	-.0240	-.0360
.150	-.0680	-.1100	-.0530	-.0120	-.0240
.300	-.1100	-.1480	-.1090	-.0340	-.0310
.520	-.1410	-.1670	-.1400	-.0610	-.0500
.650	-.1810	-.1370	-.0530	.0370	-.1170
.775	-.1760	-.1110	-.0190	.0870	-.1420
.900		-.1170	-.0360	.0820	-.1410

MACH (1) = 2.498 BETA (4) = 3.060

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.0770	-.0360	.1930	-.0930	-.0960
.050	.0720	.0110	-.1270	-.2030	-.1810
.150	.0220	-.0090	-.1160	-.2070	-.1780
.300	-.0540	-.0590	-.1200	-.1990	-.1650
.520	-.1020	-.1160	-.1360	-.1570	-.1300
.650	-.1620	-.0700	-.0840	-.1110	-.1570
.775	-.1650	-.0720	-.0620	-.0820	-.1520
.900		-.0870	-.0690	-.0730	-.1580

TABULATED PRESSURE DATA - CA12C

AMES 67-707 CA12 02A RIGHT VERTICAL (RB3920)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 6.240

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.1530	.3720	.2250	-.0530	-.1250
.050	.0450	.0270	-.0760	-.1400	-.1400
.150	-.0120	-.0210	-.0660	-.1350	-.1370
.300	-.0860	-.0050	-.0780	-.1160	-.1150
.520	-.1330	-.1350	-.1010	-.0920	-.0780
.650	-.1790	-.0870	-.0040	-.0300	-.1190
.775	-.1790	-.0770	.0040	-.0040	-.1280
.900		-.0820	.0080	.0050	-.1400

MACH (2) = 3.501 BETA (1) = -6.700

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	-.0090	-.0560	.0750	.0590	.0230
.050	-.0490	-.1110	-.0870	-.0770	-.0690
.150	-.0960	-.1080	-.0850	-.0770	-.0700
.300	-.1000	-.1100	-.0900	-.0760	-.0690
.520	-.1030	-.1060	-.0990	-.0680	-.0600
.650	-.1040	-.1050	-.0850	-.0300	-.0620
.775	-.1040	-.1010	-.0650	.0020	-.0830
.900		-.1000	-.0630	.0000	-.0880

MACH (2) = 3.501 BETA (2) = -3.420

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.0670	.0520	.0570	.1290	.0480
.050	-.0390	-.0880	-.0990	-.0050	.0210
.150	-.0790	-.0900	-.1030	-.0160	.0100
.300	-.0830	-.0960	-.0940	-.0360	-.0110
.520	-.0990	-.0950	-.0900	-.0470	-.0250
.650	-.1030	-.0870	-.0580	.0070	-.0700
.775	-.1010	-.0810	-.0470	.0610	-.0610
.900		-.0870	-.0550	.0560	-.0930

MACH (2) = 3.501 BETA (3) = -.130

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.1000	.1110	.1330	.1280	.1600
.050	-.0280	-.0640	-.0430	-.0150	.0030
.150	-.0580	-.0730	-.0490	-.0240	-.0090
.300	-.0720	-.0750	-.0580	-.0380	-.0220
.520	-.0820	-.0770	-.0600	-.0430	-.0360
.650	-.1000	-.0600	-.0100	.0150	-.0640
.775	-.1000	-.0560	-.0060	.0430	-.0840
.900		-.0620	-.0150	.0370	-.0960

MACH (2 = 3.501 BETA (4) = 3.170

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.0640	.0660	.1120	.1230	.0730
.050	-.0290	-.0420	.0950	-.0060	-.0310
.150	-.0570	-.0430	.0730	.0010	-.0340
.300	-.0750	-.0550	.0360	.0010	-.0160

AMES 87-707 OA12 02A RIGHT VERTICAL (RB0R20)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.501 BETA (4) = 3.170

Z/BV X/CV	.158	.316	.500	.840	.925
.520	-.0890	-.0730	-.0050	-.0090	-.0080
.650	-.1020	-.0580	.0840	.0420	-.0390
.775	-.1000	-.0480	.0820	.0550	-.0650
.900		-.0510	.0600	.0530	-.0740

MACH (2) = 3.501 BETA (5) = 6.470

Z/BV X/CV	.158	.316	.600	.840	.925
.000	-.0190	-.0410	.1420	.0740	.0170
.050	-.0250	.0050	.1040	.0580	.0390
.150	-.0530	-.0080	.0660	.0460	.0340
.300	-.0690	-.0340	.0210	.0280	.0260
.520	-.0860	-.0580	-.0120	.0110	.0210
.650	-.0990	-.0190	.0720	.0880	-.0210
.775	-.0990	.0030	.0660	.1000	-.0560
.900		.0060	.0560	.0830	-.0590

...LATED PRESSURE DATA - OA12C

AMES 87-707 OA12 O2A RIGHT VERTICAL (083021) (16 ...R 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 30.8490 INCHES ZMRP = .0000 INCHES
SCALE = ...0 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2090	.3070	.2050	-.0620	-.1350
.050	-.1730	-.1300	-.0330	-.0450	-.1010
.150	-.1890	-.1370	-.0230	-.0420	-.1040
.300	-.1840	-.1560	-.0410	-.0410	-.0910
.520	-.1700	-.1770	-.0820	-.0480	-.0660
.650	-.1920	-.1510	.0370	.0500	-.1110
.775	-.1910	-.1320	.0420	.0860	-.1460
.900		-.1420	.0200	.0800	-.1520

MACH (1) = 2.498 BETA (2) = -3.310

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1130	.0060	.2720	-.1020	-.1020
.050	-.1680	-.2010	.1440	-.0540	-.0800
.150	-.2040	-.1980	.0840	-.0490	-.0900
.300	-.1990	-.1910	.0050	-.0320	-.0920
.520	-.1840	-.1840	-.0660	-.0290	-.0630
.650	-.1860	-.1700	.0720	.0850	-.1020
.775	-.1840	-.1530	.0780	.1310	-.1060
.900		-.1600	.0480	.1230	-.1160

MACH (1) = 2.498 BETA (3) = -.150

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2390	.3480	.5360	.2170	.1400
.050	-.0750	-.0680	-.0150	-.0220	-.0300
.150	-.0940	-.1060	-.0510	-.0050	-.0170
.300	-.1050	-.1460	-.1070	-.0270	-.0250
.520	-.1370	-.1660	-.1380	-.0540	-.0450
.650	-.1770	-.1330	-.0490	.0430	-.1120
.775	-.1725	-.1060	-.0150	.0910	-.1350
.900		-.1130	-.0350	.0820	-.1320

MACH (1) = 2.498 BETA (4) = 3.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0710	-.0100	.1830	-.0990	-.0980
.050	.0730	.0160	-.1200	-.1930	-.1690
.150	.0250	-.0050	-.1120	-.1950	-.1640
.300	-.0500	-.0560	-.1030	-.1840	-.1520
.520	-.0990	-.1150	-.1220	-.1450	-.1130
.650	-.1630	-.0690	-.0720	-.1000	-.1460
.775	-.1650	-.0730	-.0530	-.0690	-.1410
.900		-.0870	-.0600	-.0600	-.143

AMES 87-707 OA12 02A RIGHT VERTICAL (RBQR21)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.493 BETA (5) = 6.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1370	.3570	.2160	-.0640	-.1320
.050	.0370	.0240	-.0740	-.1350	-.1340
.150	-.0140	-.0240	-.0630	-.1280	-.1320
.300	-.0880	-.0860	-.0710	-.1090	-.1100
.520	-.1320	-.1360	-.0960	-.0890	-.0740
.650	-.1780	-.0830	.0010	-.0260	-.1170
.775	-.1790	-.0760	.0070	-.0040	-.1350
.900		-.0820	.0100	.0050	-.1460

MACH (2) = 3.503 BETA (1) = -6.700

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0010	-.0480	.0840	.0530	.0270
.050	-.0790	-.1030	-.0840	-.0800	-.0740
.150	-.0950	-.1050	-.0830	-.0780	-.0730
.300	-.0980	-.1050	-.0930	-.0780	-.0700
.520	-.0980	-.1050	-.1030	-.0700	-.0660
.650	-.1020	-.0980	-.0870	-.0340	-.0380
.775	-.1010	-.0980	-.0670	.0010	-.0770
.900		-.0950	-.0640	-.0030	-.0810

MACH (2) = 3.503 BETA (2) = -3.410

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0650	.0490	.0600	.1310	.0490
.050	-.0720	-.0890	-.0970	.0010	.0310
.150	-.0760	-.0890	-.1010	-.0080	.0190
.300	-.0760	-.0920	-.0850	-.0250	.0000
.520	-.0850	-.0920	-.0810	-.0380	-.0180
.650	-.0990	-.0790	-.0550	.0150	-.0640
.775	-.1000	-.0750	-.0420	.0720	-.0780
.900		-.0830	-.0480	.0710	-.0780

MACH (2) = 3.503 BETA (3) = -.150

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1080	.2140	.1360	.1910	.1610
.050	-.0410	-.0590	-.0350	-.0150	.0010
.150	-.0530	-.0660	-.0450	-.0260	-.0100
.300	-.0670	-.0710	-.0610	-.0460	-.0280
.520	-.0780	-.0730	-.0610	-.0440	-.0390
.650	-.0943	-.0550	-.0090	.0140	-.0670
.775	-.0970	-.0503	-.0019	.0430	-.0800
.900		-.0570	-.0110	.0380	-.0850

MACH (2) = 3.503 BETA (4) = 3.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0630	.0190	.1110	.1230	.0690
.050	-.0520	-.0390	.0940	-.0090	-.0340
.150	-.0570	-.0390	.0760	-.0010	-.0360
.300	-.0720	-.0500	.0350	.0000	-.0170

AMES 87-707 0412 02A RIGHT VERTICAL (RBQR21)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.503 BETA (4) = 3.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0850	-.0590	-.0060	-.0100	-.0100
.550	-.0960	-.0510	.0020	.0400	-.0390
.775	-.0960	-.0440	.0310	.0540	-.0680
.900		-.0470	.0590	.0500	-.0740

MACH (2) = 3.503 BETA (5) = 6.470

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	-.0140	-.0380	.1440	.0730	.0170
.050	-.0510	.0050	.1010	.0560	.0360
.150	-.0540	-.0060	.0650	.0420	.0300
.300	-.0690	-.0330	.0160	.0220	.0200
.520	-.0860	-.0570	-.0120	.0050	.0160
.650	-.0990	-.0190	.0690	.0850	-.0220
.775	-.0960	.0030	.0670	.0990	-.0570
.900		.0050	.0530	.0810	-.0570

AMES 67-707 OA12 O2A RIGHT VERTICAL (RBGR22) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -9.630

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.4210	.0110	-.0820	-.0570	.0030
.050	.0960	.0100	-.1350	-.1620	-.1540
.150	.1340	.0280	-.1550	-.1640	-.1510
.300	.0400	-.0130	-.1470	-.1550	-.1460
.520	-.0190	-.0570	-.1240	-.1440	-.1490
.650	-.1260	.0490	-.0960	-.1330	-.1650
.775	-.1120	.0690	-.0840	-.1280	-.1610
.900		.0560	-.0850	-.1100	-.1910

MACH (1) = 2.498 BETA (2) = -5.610

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3320	.0700	-.0190	.1120	.1240
.050	.1710	.0780	-.1240	-.1340	-.1270
.150	.2390	.0630	-.1030	-.1310	-.1220
.300	.0640	.0340	-.0890	-.1250	-.1110
.520	-.0520	-.0040	-.0870	-.0990	-.0850
.650	-.1540	.1440	-.0860	-.0460	-.1180
.775	-.1420	.1540	-.0990	.0250	-.1240
.900		.1620	-.1030	.0200	-.1520

MACH (1) = 2.498 BETA (3) = .430

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.4710	.6420	.2520	.2120	.1540
.050	.0440	.1090	.0160	.0010	-.0030
.150	.1170	.1400	.0580	.0200	.0160
.300	-.0350	.0070	.0520	.0550	.0500
.520	-.1060	-.0780	.0190	.0850	.1170
.650	-.1650	.0490	.1760	.1900	-.0040
.775	-.1700	.0610	.1840	.2000	-.0470
.900		.0210	.1690	.1790	-.0780

MACH (1) = 2.498 BETA (4) = 6.450

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.3770	-.0310	.1730	.1780	.0890
.050	-.0640	-.1650	.1800	.2280	.2190
.150	-.0410	-.1450	.1290	.1840	.1960
.300	-.0950	-.1210	.0850	.1420	.1520
.520	-.1430	-.1180	.0380	.1270	.1590
.650	-.1790	-.0500	.2940	.3370	.0760
.775	-.1700	-.0340	.2550	.3450	-.0070
.900		-.0310	.2270	.3220	-.0430

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AMES 87-707 OA12 O2A RIGHT VERTICAL

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (5) = 10.460

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4010	.0620	.0350	.0490	-.0270
.050	-.0550	-.0990	.1600	.2360	.2410
.150	-.0840	-.0310	.1250	.1980	.2240
.300	-.1240	-.0570	.0870	.1620	.1840
.520	-.1320	-.0930	.0530	.2280	.3140
.650	-.1750	.0220	.2830	.3540	.1050
.775	- 1690	.0350	.2810	.3560	.0190
.900		.0350	.2690	.3370	-.0250

MACH (2) = 3.502 BETA (1) = -9.610

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1750	-.0070	.0290	.0240	.0400
.050	-.0130	-.0750	-.0730	-.0860	-.0840
.150	-.0180	-.0530	-.0790	-.0870	-.0840
.300	.0020	-.0370	-.0710	-.0850	-.0810
.520	-.0420	-.0400	-.0710	-.0810	-.0870
.650	-.0320	.0030	-.0670	-.0760	-.0920
.775	-.0800	.0260	-.0500	-.0750	-.0800
.900		.0290	-.0380	-.0720	-.1040

MACH (2) = 3.502 BETA (2) = -5.600

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2460	.1200	-.0030	.0850	.1070
.050	.0000	.0720	-.0610	-.0690	-.0690
.150	.0110	.0870	-.0690	-.0700	-.0630
.300	-.0350	.0330	-.0700	-.0600	-.0580
.520	-.0710	-.0220	-.0680	-.0450	-.0520
.650	-.0960	.0280	-.0520	-.0330	-.0610
.775	-.1000	.0560	-.0290	-.0260	-.0610
.900		.0210	-.0090	-.0260	-.0840

MACH (2) = 3.502 BETA (3) = .420

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1580	.3700	.1640	.1470	.1160
.050	-.0230	.0040	.0060	-.0050	-.0080
.150	-.0120	.0380	.0260	.0100	.0050
.300	-.0290	-.0030	.0460	.0220	.0120
.520	-.0610	-.0640	.0240	.0560	.0700
.650	-.0910	-.0490	.1130	.1190	.0120
.775	-.0960	-.0220	.1400	.1310	-.0190
.900		-.0370	.1440	.1240	-.0340

MACH 2/ = 3.502 BETA (4) = 6.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2660	.1100	.0510	.1570	.0940
.050	-.0260	-.0670	.1070	.2040	.1950
.150	-.0110	-.0500	.0850	.1730	.1780
.300	-.0320	-.0510	.0560	.1380	.1520

AMES 67-707 OA12 02A RIGHT VERTICAL (R30R22)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (4) = 6.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0630	-.0580	.0240	.0980	.1340
.650	-.0880	-.0320	.1470	.2500	.0700
.775	-.0910	-.0230	.1490	.2690	.0050
.900		-.0070	.1510	.2590	-.0070

MACH (2) = 3.502 BETA (5) = 10.440

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2790	.0610	.1270	.0620	-.0020
.050	-.0310	.0360	.2040	.2030	.1930
.150	-.0450	.0440	.1680	.1800	.1830
.300	-.0440	.0240	.1190	.1560	.1630
.520	-.0650	-.0150	.0780	.1340	.1980
.650	-.0880	.0760	.2490	.2080	.0940
.775	-.0900	.0940	.2510	.3100	.0210
.900		.1280	.2410	.2980	.0030

AMES 87-707 OA12 C2A RIGHT VERTICAL (R9-P23) (16 MAY 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 15.000 RUDDER = .000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -5.560

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2490	.1890	.1820	.2240	.2190
.050	.1840	-.0340	-.1080	-.1210	-.0910
.150	.1670	-.0070	-.1020	-.1020	-.0830
.300	.0560	-.0210	-.1070	-.0860	-.0740
.520	.0010	-.0260	-.0370	-.0530	-.0780
.650	-.1200	.1040	.0770	-.0310	-.0840
.775	-.1010	.1030	.0650	.0380	-.0860
.900		.0800	.0460	.0830	-.1090

MACH (1) = 2.498 BETA (2) = .420

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.5190	.4250	.2830	.3020	.2350
.050	.1320	.0670	.0190	.0090	-.0010
.150	.1680	.1250	.0450	.0390	.0340
.300	.0540	.0650	.0710	.0540	.0540
.520	-.0240	-.0060	.0590	.1250	.1690
.650	-.1200	.1460	.2000	.2420	.0260
.775	-.1050	.1430	2130	.2660	-.0240
.900		.1380	.1970	.2400	-.0540

MACH (1) = 2.498 BETA (3) = 5.340

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.5080	.2490	.2860	.2760	.1800
.050	-.0630	.1630	.2630	.2640	.2590
.150	-.0820	.1310	.2180	.2300	.2440
.300	-.0380	.0940	.1670	.1930	.1990
.520	-.0980	.0350	.1020	.2130	.2260
.650	-.1420	.2770	.3560	.4100	.1240
.775	-.1530	.3000	.3570	.4100	.0420
.900		.2900	.3460	.3950	-.0050

MACH (2) = 3.502 BETA (1) = -5.540

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.1780	.0500	.1780	.2600	.2410
.050	.0720	-.0220	-.0420	-.0550	-.0500
.150	.0970	-.0110	-.0420	-.0450	-.0340
.300	.0450	-.0200	-.0430	-.0320	-.0210
.520	-.0050	-.0270	-.0390	-.0160	-.0250
.650	-.0600	.0300	-.0130	-.0040	-.0450
.775	-.0360	.0640	-.0010	.0040	-.0470
.900		.0650	.0040	.0240	-.0660

AMES 87-707 0412 02A RIGHT VERTICAL (RB0R23)

SECTION (1)RIGHT VERTICAL DEPENDENT VARIABLE CP

MACH (2) = 3.502 BETA (2) = .420

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2940	.2390	.2140	.2640	.2190
.050	.0170	.0380	.0070	.0260	.0140
.150	.0410	.0720	.0340	.0200	.0230
.300	.0310	.0480	.0270	.0400	.0450
.520	-.0240	.0000	.0390	.0360	.0350
.650	-.0720	.0670	.1200	.0660	-.0230
.775	-.0740	.0970	.1420	.2000	-.0320
.900		.0900	.1360	.1840	-.0220

MACH (2) = 3.502 BETA (3) = 6.320

Z/BV / X/CV	.158	.316	.600	.840	.925
.000	.2010	.2130	.2590	.2850	.2070
.050	-.0060	.1190	.1870	.1890	.1900
.150	-.0670	.1010	.1750	.1810	.1890
.300	-.0320	.0890	.1500	.1670	.1700
.520	-.0550	.0220	.1150	.1800	.1840
.650	-.0830	.1510	.2920	.2850	.0960
.775	-.0850	.1510	.2940	.3270	.0370
.900		.1630	.2850	.3130	.0150

AMES 87-707 OA12 OEA APU INLET (RBOF01) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

BETA =	.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = -.090

Z/BV	.079
X/CV	
.076	.3570

MACH (1) = 2.498 ALPHA (2) = 4.960

Z/BV	.079
X/CV	
.076	.4200

MACH (1) = 2.498 ALPHA (3) = 9.970

Z/BV	.079
X/CV	
.076	.4930

MACH (1) = 2.498 ALPHA (4) = 14.890

Z/BV	.079
X/CV	
.076	.4570

MACH (1) = 2.498 ALPHA (5) = 19.870

Z/BV	.079
X/CV	
.076	.4090

MACH (2) = 3.502 ALPHA (1) = -.020

Z/BV	.079
X/CV	
.076	.2750

MACH (2) = 3.502 ALPHA (2) = 5.170

Z/BV	.079
X/CV	
.076	.2040

MACH (2) = 3.502 ALPHA (3) = 10.130

Z/BV	.079
X/CV	
.076	.2520

MACH (2) = 3.502 ALPHA (4) = 15.050

Z/BV	.079
X/CV	
.076	.3120

MACH 2) = 3.502 ALPHA (5) = 20.020

Z/BV	.079
X/CV	
.076	.3970

AMES 67-707 OA12 02A APU INLET (RBQP02) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -3.300

Z/BV	.079
X/CV	
.076	.1490

MACH (1) = 2.498 BETA (2) = 3.060

Z/BV	.079
X/CV	
.076	.1890

MACH (2) = 3.502 BETA (1) = -3.410

Z/BV	.079
X/CV	
.076	.0760

MACH (2) = 3.502 BETA (2) = 3.190

Z/BV	.079
X/CV	
.075	.0730

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AMES 87-707 OA12 02A APU INLET

(PB3P03) (16 Apr 79)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	10.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520

Z/BV	.079
X/CV	
.076	.3720

MACH (1) = 2.498 BETA (2) = -3.340

Z/BV	.079
X/CV	
.076	.2470

MACH (1) = 2.498 BETA (3) = 3.020

Z/BV	.079
X/CV	
.076	.2380

MACH (1) = 2.498 BETA (4) = 6.200

Z/BV	.079
X/CV	
.076	.4050

MACH (2) = 3.502 BETA (1) = -6.740

Z/BV	.079
X/CV	
.076	.1110

MACH (2) = 3.502 BETA (2) = -3.460

Z/BV	.079
X/CV	
.076	.1120

MACH (2) = 3.502 BETA (3) = 3.140

Z/BV	.079
X/CV	
.076	.0970

MACH (2) = 3.502 BETA (4) = 6.440

Z/BV	.079
X/CV	
.076	.0990

AMES 87-707 OA12 02A APU INLET (RBSP04) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.490 Z/BV .079
X/CV
.076 .2200

MACH (1) = 2.498 BETA (2) = -3.310 Z/BV .079
X/CV
.076 .2660

MACH (1) = 2.498 BETA (3) = 3.050 Z/BV .079
X/CV
.076 .2640

MACH (1) = 2.498 BETA (4) = 6.240 Z/BV .079
X/CV
.076 .1990

MACH (2) = 3.502 BETA (1) = -6.710 Z/BV .079
X/CV
.076 .1220

MACH (2) = 3.502 BETA (2) = -3.430 Z/BV .079
X/CV
.076 .0310

MACH (2) = 3.502 BETA (3) = 3.160 Z/BV .079
X/CV
.076 .0200

MACH (2) = 3.502 BETA (4) = 6.470 Z/BV .079
X/CV
.076 .1090

AMES 87-707 OA12 OBA APU INLET (RB@P05) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	-20.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) = 2.498	BETA (1) = -6.440	Z/BV	.079
		X/CV	
		.076	.0620
MACH (1) = 2.498	BETA (2) = -3.500	Z/BV	.079
		X/CV	
		.076	.1510
MACH (1) = 2.498	BETA (3) = -.160	Z/BV	.079
		X/CV	
		.076	.3610
MACH (1) = 2.498	BETA (4) = 3.060	Z/BV	.079
		X/CV	
		.076	.1300
MACH (1) = 2.498	BETA (5) = 6.290	Z/BV	.079
		X/CV	
		.076	.0730
MACH (2) = 3.501	BETA (1) = -6.670	Z/BV	.079
		X/CV	
		.076	.0340
MACH (2) = 3.501	BETA (2) = -3.420	Z/BV	.079
		X/CV	
		.076	.0770
MACH (2) = 3.501	BETA (3) = -.160	Z/BV	.079
		X/CV	
		.076	.2690
MACH (2) = 3.501	BETA (4) = 3.180	Z/BV	.079
		X/CV	
		.076	.0820
MACH (2) = 3.501	BETA (5) = 6.530	Z/BV	.079
		X/CV	
		.076	.0340

AMES 87-707 OA12 O2A APU INLET (RBQP06) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3000 INCHES
LREF = 59.8490 INCHES YMRP = .0000 INCHES
BREF = 59.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520 Z/BV .079 X/CV .076 .3700

MACH (1) = 2.498 BETA (2) = -3.340 Z/BV .079 X/CV .076 .2560

MACH (1) = 2.498 BETA (3) = -.160 Z/BV .079 X/CV .076 .5050

MACH (1) = 2.498 BETA (4) = 3.020 Z/BV .079 X/CV .076 .2470

MACH (1) = 2.498 BETA (5) = 6.210 Z/BV .079 X/CV .076 .4220

MACH (2) = 3.501 BETA (1) = -6.750 Z/BV .079 X/CV .076 .0910

MACH (2) = 3.501 BETA (2) = -3.450 Z/BV .079 X/CV .076 .1060

MACH (2) = 3.501 BETA (3) = -.160 Z/BV .079 X/CV .076 .2520

MACH (2) = 3.501 BETA (4) = 3.140 Z/BV .079 X/CV .076 .0870

MACH (2) = 3.501 BETA (5) = 6.440 Z/BV .079 X/CV .076 .0830

AMES 87-707 OA12 O2A APU INLET (RBQP07) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	52.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	-20.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

Z/BV	.079
X/CV	
.076	.2260

MACH (1) = 2.498 BETA (2) = -3.320

Z/BV	.079
X/CV	
.076	.2680

MACH (1) = 2.498 BETA (3) = -.150

Z/BV	.079
X/CV	
.076	.4190

MACH (1) = 2.498 BETA (4) = 3.040

Z/BV	.079
X/CV	
.076	.2660

MACH (1) = 2.498 BETA (5) = 6.240

Z/BV	.079
X/CV	
.076	.2000

MACH (2) = 3.501 BETA (1) = -6.710

Z/BV	.079
X/CV	
.076	.1310

MACH (2) = 3.501 BETA (2) = -3.440

Z/BV	.079
X/CV	
.076	.0320

MACH (2) = 3.501 BETA (3) = -.150

Z/BV	.079
X/CV	
.076	.0870

MACH (2) = 3.501 BETA (4) = 3.160

Z/BV	.079
X/CV	
.076	.0200

MACH (2) = 3.501 BETA (5) = 6.470

Z/BV	.079
X/CV	
.076	.1050

AMES 87-707 OA12 O2A APU INLET (RBQP08) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	69.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	.000
ELEVON =	10.000	RUDFLR =	40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) =	2.498	BETA (1) =	-6.440	Z/BV	.079
				X/CV	
				.076	.2050
MACH (1) =	2.498	BETA (2) =	-3.300	Z/BV	.079
				X/CV	
				.076	.2650
MACH (1) =	2.498	BETA (3) =	-.160	Z/BV	.079
				X/CV	
				.076	.4320
MACH (1) =	2.498	BETA (4) =	3.060	Z/BV	.079
				X/CV	
				.076	.2720
MACH (1) =	2.498	BETA (5) =	6.290	Z/BV	.079
				X/CV	
				.076	.1540
MACH (2) =	3.501	BETA (1) =	-6.670	Z/BV	.079
				X/CV	
				.076	.2290
MACH (2) =	3.501	BETA (2) =	-3.420	Z/BV	.079
				X/CV	
				.076	.2290
MACH (2) =	3.501	BETA (3) =	-.170	Z/BV	.079
				X/CV	
				.076	.3680
MACH (2) =	3.501	BETA (4) =	3.190	Z/BV	.079
				X/CV	
				.076	.1840
MACH (2) =	3.501	BETA (5) =	6.530	Z/BV	.079
				X/CV	
				.076	.1250

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQP09) (16 MAY 73)

AMES 87-707 OA12 C2A APU INLET

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	10.000	RUDDER =	.000
ELEVON =	10.000	RUDFLR =	40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.520	Z/BV	.079
	X/CV	
	.076	.4710
MACH (1) = 2.498 BETA (2) = -3.340	Z/BV	.079
	X/CV	
	.076	.3550
MACH (1) = 2.498 BETA (3) = -.160	Z/BV	.079
	X/CV	
	.076	.5300
MACH (1) = 2.498 BETA (4) = 3.020	Z/BV	.079
	X/CV	
	.076	.2920
MACH (1) = 2.498 BETA (5) = 6.200	Z/BV	.079
	X/CV	
	.076	.4100
MACH (2) = 3.501 BETA (1) = -6.750	Z/BV	.079
	X/CV	
	.076	.2290
MACH (2) = 3.501 BETA (2) = -3.450	Z/BV	.079
	X/CV	
	.076	.2620
MACH (2) = 3.501 BETA (3) = -.160	Z/BV	.079
	X/CV	
	.076	.3560
MACH (2) = 3.501 BETA (4) = 3.130	Z/BV	.079
	X/CV	
	.076	.1890
MACH (2) = 3.501 BETA (5) = 6.440	Z/BV	.079
	X/CV	
	.076	.1660

DATE 10 SEP 73 TABULATED PRESSURE DATA - OA12C (RBQP10) (16 MAY 73)

AMES 87-707 OA12 O2A APU INLET

REFERENCE DATA

SREF =	2.4210 SQ FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	.000
ELEVON =	10.000	RUDFLR =	40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480	Z/BV	.079
	X/CV	
	.076	.3220
MACH (1) = 2.498 BETA (2) = -3.320	Z/BV	.079
	X/CV	
	.076	.3320
MACH (1) = 2.498 BETA (3) = -.160	Z/BV	.079
	X/CV	
	.076	.4300
MACH (1) = 2.498 BETA (4) = 3.040	Z/BV	.079
	X/CV	
	.076	.2980
MACH (1) = 2.498 BETA (5) = 6.240	Z/BV	.079
	X/CV	
	.076	.2160
MACH (2) = 3.501 BETA (1) = -6.710	Z/BV	.079
	X/CV	
	.076	.2500
MACH (2) = 3.501 BETA (2) = -3.440	Z/BV	.079
	X/CV	
	.076	.1500
MACH (2) = 3.501 BETA (3) = -.150	Z/BV	.079
	X/CV	
	.076	.1950
MACH (2) = 3.501 BETA (4) = 3.160	Z/BV	.079
	X/CV	
	.076	.1290
MACH (2) = 3.501 BETA (5) = 6.480	Z/BV	.079
	X/CV	
	.076	.1750

AMES 67-707 OA12 02A APU INLET (RBQP11) (16 MAY 73)

REFERENCE DATA

SREF = 2.4216 SQ.FT. XMRP = 42.5000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000
ELEVON = -20.000 RUDFLR = 40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.440 Z/BV .079
X/CV
.076 .2130

MACH (1) = 2.498 BETA (2) = -3.300 Z/BV .079
X/CV
.076 .2740

MACH (1) = 2.498 BETA (3) = -.220 Z/BV .079
X/CV
.076 .4420

MACH (1) = 2.498 BETA (4) = 3.070 Z/BV .079
X/CV
.076 .2700

MACH (1) = 2.498 BETA (5) = 6.300 Z/BV .079
X/CV
.076 .1540

MACH (2) = 3.502 BETA (1) = -6.670 Z/BV .079
X/CV
.076 .2450

MACH (2) = 3.502 BETA (2) = -3.410 Z/BV .079
X/CV
.076 .2370

MACH (2) = 3.502 BETA (3) = -.160 Z/BV .079
X/CV
.076 .3740

MACH (2) = 3.502 BETA (4) = 3.180 Z/BV .079
X/CV
.076 .1910

MACH (2) = 3.502 BETA (5) = 6.530 Z/BV .079
X/CV
.076 .1230

AMES 87-707 OA12 02A APU INLET (RBQP12) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	10.000	RUDDER =	.000
ELEVON =	-20.000	RUDFLR =	40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.530	Z/BV	.079
	X/CV	
	.076	.4780
MACH (1) = 2.498 BETA (2) = -3.340	Z/BV	.079
	X/CV	
	.076	.3590
MACH (1) = 2.498 BETA (3) = -.170	Z/BV	.079
	X/CV	
	.076	.5320
MACH (1) = 2.498 BETA (4) = 3.020	Z/BV	.079
	X/CV	
	.076	.3020
MACH (1) = 2.498 BETA (5) = 6.200	Z/BV	.079
	X/CV	
	.076	.4240
MACH (2) = 3.502 BETA (1) = -6.750	Z/BV	.079
	X/CV	
	.076	.2390
MACH (2) = 3.502 BETA (2) = -3.460	Z/BV	.079
	X/CV	
	.076	.2690
MACH (2) = 3.502 BETA (3) = -.160	Z/BV	.079
	X/CV	
	.076	.3640
MACH (2) = 3.502 BETA (4) = 3.140	Z/BV	.079
	X/CV	
	.076	.1940
MACH (2) = 3.502 BETA (5) = 6.430	Z/BV	.079
	X/CV	
	.076	.1640

AMES 87-707 OA12 02A APU INLET (RBQP13) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	.000
ELEVON =	-20.000	RUDFLR =	40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) = 2.498	BETA (1) = -6.490	Z/BV	.079
		X/CV	
		.076	.3230
MACH (1) = 2.498	BETA (2) = -3.330	Z/BV	.079
		X/CV	
		.076	.3330
MACH (1) = 2.498	BETA (3) = -.150	Z/BV	.079
		X/CV	
		.076	.4340
MACH (1) = 2.498	BETA (4) = 3.040	Z/BV	.079
		X/CV	
		.076	.2950
MACH (1) = 2.498	BETA (5) = 6.240	Z/BV	.079
		X/CV	
		.076	.2170
MACH (2) = 3.502	BETA (1) = -6.710	Z/BV	.079
		X/CV	
		.076	.2510
MACH (2) = 3.502	BETA (2) = -3.440	Z/BV	.079
		X/CV	
		.076	.1530
MACH (2) = 3.502	BETA (3) = -.160	Z/BV	.079
		X/CV	
		.076	.2010
MACH (2) = 3.502	BETA (4) = 3.160	Z/BV	.079
		X/CV	
		.076	.1270
MACH (2) = 3.502	BETA (5) = 6.470	Z/BV	.079
		X/CV	
		.076	.1710

AMES 87-707 OA12 02A APU INLET (RB@P14) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	.000	RUDDER =	.000
ELEVON =	-40.000	RUDFLR =	40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) = 2.498	BETA (1) = -6.440	Z/BV	.079
		X/CV	
		.076	.2050
MACH (1) = 2.498	BETA (2) = -3.300	Z/BV	.079
		X/CV	
		.076	.2680
MACH (1) = 2.498	BETA (3) = -.170	Z/BV	.079
		X/CV	
		.076	.4330
MACH (1) = 2.498	BETA (4) = 3.060	Z/BV	.079
		X/CV	
		.076	.2640
MACH (1) = 2.498	BETA (5) = 6.290	Z/BV	.079
		X/CV	
		.076	.1550
MACH (2) = 3.503	BETA (1) = -6.670	Z/BV	.079
		X/CV	
		.076	.2320
MACH (2) = 3.503	BETA (2) = -3.420	Z/BV	.079
		X/CV	
		.076	.2340
MACH (2) = 3.503	BETA (3) = -.170	Z/BV	.079
		X/CV	
		.076	.3650
MACH (2) = 3.503	BETA (4) = 3.180	Z/BV	.079
		X/CV	
		.076	.1830
MACH (2) = 3.503	BETA (5) = 6.520	Z/BV	.079
		X/CV	
		.076	.1190

AMES 87-707 OA12 02A APU INLET (RBQP15) (16 MAY 73)

REFERENCE DATA

PARAMETPIC DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES	ALPHA =	10.000
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES	ELEVON =	-40.000
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES	RUDDER =	.000
SCALE =	.0300 SCALE			RUDFLR =	40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

M.CH (1) = 2.498	BETA (1) = -6.520	Z/BV	.079		
		X/CV			
		.076	.4610		
MACH (1) = 2.498	BETA (2) = -3.340	Z/BV	.079		
		X/CV			
		.076	.3560		
MACH (1) = 2.498	BETA (3) = -.170	Z/BV	.079		
		X/CV			
		.076	.5330		
MACH (1) = 2.498	BETA (4) = 3.020	Z/BV	.079		
		X/CV			
		.076	.3010		
MACH (1) = 2.498	BETA (5) = 6.200	Z/BV	.079		
		X/CV			
		.076	.4210		
MACH (2) = 3.503	BETA (1) = -6.750	Z/BV	.079		
		X/CV			
		.076	.2390		
MACH (2) = 3.503	BETA (2) = -3.460	Z/BV	.079		
		X/CV			
		.076	.2640		
MACH (2) = 3.503	BETA (3) = -.160	Z/BV	.079		
		X/CV			
		.076	.3590		
MACH (2) = 3.503	BETA (4) = 3.130	Z/BV	.079		
		X/CV			
		.076	.1910		
MACH (2) = 3.503	BETA (5) = 6.430	Z/BV	.079		
		X/CV			
		.076	.1630		

AMES 87-707 OA12 O2A APU INLET (RBQP16) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	.000
ELEVON =	-40.000	RUDFLR =	40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) = 2.498	BETA (1) = -6.490	Z/BV	.079
		X/CV	
		.076	.3200
MACH (1) = 2.498	BETA (2) = -3.320	Z/BV	.079
		X/CV	
		.076	.3360
MACH (1) = 2.498	BETA (3) = -.160	Z/BV	.079
		X/CV	
		.076	.4270
MACH (1) = 2.498	BETA (4) = 3.040	Z/BV	.079
		X/CV	
		.076	.2970
MACH (1) = 2.498	BETA (5) = 6.240	Z/BV	.079
		X/CV	
		.076	.2060
MACH (2) = 3.503	BETA (1) = -6.720	Z/BV	.079
		X/CV	
		.076	.2510
MACH (2) = 3.503	BETA (2) = -3.440	Z/BV	.079
		X/CV	
		.076	.1430
MACH (2) = 3.503	BETA (3) = -.160	Z/BV	.079
		X/CV	
		.076	.2040
MACH (2) = 3.503	BETA (4) = 3.150	Z/BV	.079
		X/CV	
		.076	.1250
MACH (2) = 3.503	BETA (5) = 6.470	Z/BV	.079
		X/CV	
		.076	.1790

AMES 87-707 OA12 02A APU INLET (R8QP17) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

BETA =	.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) = 2.498 ALPHA (1) = 15.200 Z/BV .079
Y/CV
.076 .4930

MACH (1) = 2.498 ALPHA (2) = 20.250 Z/BV .079
X/CV
.076 .4500

MACH (1) = 2.498 ALPHA (3) = 25.180 Z/BV .079
X/CV
.076 .3570

MACH (1) = 2.498 ALPHA (4) = 30.150 Z/BV .079
X/CV
.076 .2930

MACH (1) = 2.498 ALPHA (5) = 35.290 Z/BV .079
X/CV
.076 1.1280

MACH (1) = 2.498 ALPHA (6) = 38.670 Z/BV .079
X/CV
.076 .0720

MACH (2) = 3.501 ALPHA (1) = 15.160 Z/BV .079
X/CV
.076 .4120

MACH (2) = 3.501 ALPHA (2) = 20.230 Z/BV .079
X/CV
.076 .1980

MACH (2) = 3.501 ALPHA (3) = 25.240 Z/BV .079
X/CV
.076 .1620

MACH (2) = 3.501 ALPHA (4) = 30.110 Z/BV .079
X/CV
.076 .1380

AMES 67-707 OA12 O2A APU INLET (RBOP17)

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (2) = 3.501 ALPHA (3) = 35.250 Z/BV .079

Y/CV	
.076	.1040

MACH (2) = 3.501 ALPHA (6) = 38.630 Z/BV .079

X/CV	
.076	.0270

AMES 87-707 GA12 CPA APU INLET (RB3P18) (15 [illegible] 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	30.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.480

Z/BV	.079
X/CV	
.076	.3800

MACH (1) = 2.498 BETA (2) = -3.310

Z/BV	.079
X/CV	
.076	.3110

MACH (1) = 2.498 BETA (3) = -.130

Z/BV	.079
X/CV	
.076	.2900

MACH (1) = 2.498 BETA (4) = 3.060

Z/BV	.079
X/CV	
.076	.2800

MACH (1) = 2.498 BETA (5) = 6.240

Z/BV	.079
X/CV	
.076	.2740

MACH (2) = 3.501 BETA (1) = -6.700

Z/BV	.079
X/CV	
.076	.1270

MACH (2) = 3.501 BETA (2) = -3.420

Z/BV	.079
X/CV	
.076	.1080

MACH (2) = 3.501 BETA (3) = -.130

Z/BV	.079
X/CV	
.076	.1130

MACH (2) = 3.501 BETA (4) = 3.170

Z/BV	.079
X/CV	
.076	.1230

MACH (2) = 3.501 BETA (5) = 6.470

Z/BV	.079
X/CV	
.076	.0860

AMES 87-707 OA12 02A APU INLET (RBQP19) (16 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 72.3000 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 30.000 RUDDER = -20.000
ELEVON = .000 RUDFLR = 40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470 Z/BV .079
X/CV
.076 .3510

MACH (1) = 2.498 BETA (2) = -3.300 Z/BV .079
X/CV
.076 .2730

MACH (1) = 2.498 BETA (3) = -.140 Z/BV .079
X/CV
.076 .2710

MACH (1) = 2.498 BETA (4) = 3.060 Z/BV .079
X/CV
.076 .2720

MACH (1) = 2.498 BETA (5) = 6.250 Z/BV .079
X/CV
.076 .2480

MACH (2) = 3.502 BETA (1) = -6.700 Z/BV .079
X/CV
.076 .1010

MACH (2) = 3.502 BETA (2) = -3.420 Z/BV .079
X/CV
.076 .0990

MACH (2) = 3.502 BETA (3) = -.130 Z/BV .079
X/CV
.076 .1420

MACH (2) = 3.502 BETA (4) = 3.170 Z/BV .079
X/CV
.076 .1050

MACH (2) = 3.502 BETA (5) = 6.470 Z/BV .079
X/CV
.076 .0640

DATE 16 SEP 73 TABULATED PRESSURE DATA - 0412C

AMES 87-707 CASE 02A APU INLET (RBQP20) (16 SEP 73)

PARAMETRIC DATA

ALPHA =	30.000	RUDDER =	.000
ELEVON =	10.000	RUDFLR =	40.000

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	36.6490 INCHES	YMRP =	.0000 INCHES
BREF =	39.2490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -6.470 Z/BV .079 X/CV .076 .3430

MACH (1) = 2.498 BETA (2) = -3.300 Z/BV .079 Y/CV .076 .2810

MACH (1) = 2.498 BETA (3) = -.130 Z/BV .079 X/CV .076 .2660

MACH (1) = 2.498 BETA (4) = 3.060 Z/BV .079 X/CV .076 .2670

MACH (1) = 2.498 BETA (5) = 6.240 Z/BV .079 X/CV .076 .2610

MACH (2) = 3.501 BETA (1) = -6.700 Z/BV .079 X/CV .076 .0970

MACH (2) = 3.501 BETA (2) = -3.420 Z/BV .079 X/CV .076 .0990

MACH (2) = 3.501 BETA (3) = -.130 Z/BV .079 X/CV .076 .1370

MACH (2) = 3.501 BETA (4) = 3.170 Z/BV .079 X/CV .076 .1130

MACH (2) = 3.501 BETA (5) = 6.470 Z/BV .079 X/CV .076 .0630

AMES 87-707 OA12 C2A APU INLET (RBQP21) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	30.000	RUDDER =	.000
ELEVON =	-20.000	RUDFLR =	40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) =	2.498	BETA (1) =	-6.470	Z/BV	.079	
				X/CV		
				.076	.3230	
MACH (1) =	2.498	BETA (2) =	-3.310	Z/BV	.079	
				X/CV		
				.076	.2900	
MACH (1) =	2.498	BETA (3) =	-.130	Z/BV	.079	
				X/CV		
				.076	.2700	
MACH (1) =	2.498	BETA (4) =	3.060	Z/BV	.079	
				X/CV		
				.076	.2720	
MACH (1) =	2.498	BETA (5) =	6.250	Z/BV	.079	
				X/CV		
				.076	.2570	
MACH (2) =	3.503	BETA (1) =	-6.700	Z/BV	.079	
				X/CV		
				.076	.1070	
MACH (2) =	3.503	BETA (2) =	-3.410	Z/BV	.079	
				X/CV		
				.076	.0980	
MACH (2) =	3.503	BETA (3) =	-.130	Z/BV	.079	
				X/CV		
				.076	.1410	
MACH (2) =	3.503	BETA (4) =	3.170	Z/BV	.079	
				X/CV		
				.076	.1080	
MACH (2) =	3.503	BETA (5) =	6.470	Z/BV	.079	
				X/CV		
				.076	.0670	

AMES 87-707 OA12 O2A APU INLET (RB3P22) (16 [illegible] 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0300 SCALE		

PARAMETRIC DATA

ALPHA =	20.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) = 2.498 BETA (1) = -9.630

Z/BV	.079
X/CV	
.076	.2060

MACH (1) = 2.498 BETA (2) = -5.610

Z/BV	.079
X/CV	
.076	.3400

MACH (1) = 2.498 BETA (3) = .430

Z/BV	.079
X/CV	
.076	.4410

MACH (1) = 2.498 BETA (4) = 6.450

Z/BV	.079
X/CV	
.076	.1690

MACH (1) = 2.498 BETA (5) = 10.460

Z/BV	.079
X/CV	
.076	.1260

MACH (2) = 3.502 BETA (1) = -9.610

Z/BV	.079
X/CV	
.076	.3240

MACH (2) = 3.502 BETA (2) = -5.600

Z/BV	.079
X/CV	
.076	.2600

MACH (2) = 3.502 BETA (3) = .420

Z/BV	.079
X/CV	
.076	.1740

MACH (2) = 3.502 BETA (4) = 6.440

Z/BV	.079
X/CV	
.076	.1970

MACH (2) = 3.502 BETA (5) = 10.440

Z/BV	.079
X/CV	
.076	.1760

AMES 87-707 OA12 O2A APU INLET (RBQP23) (16 MAY 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	32.3000 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHA =	15.000	RUDDER =	.000
ELEVON =	.000	RUDFLR =	40.000

SECTION (1)APU INLET DEPENDENT VARIABLE CP

MACH (1) =	2.498	BETA (1) =	-5.560	Z/BV	.079	
				X/CV		
				.076	.3400	
MACH (1) =	2.498	BETA (2) =	.420	Z/BV	.079	
				X/CV		
				.076	.4860	
MACH (1) =	2.498	BETA (3) =	6.340	Z/BV	.079	
				X/CV		
				.076	.3470	
MACH (2) =	3.502	BETA (1) =	-5.540	Z/BV	.079	
				X/CV		
				.076	.2370	
MACH (2) =	3.502	BETA (2) =	.420	Z/BV	.079	
				X/CV		
				.076	.4060	
MACH (2) =	3.502	BETA (3) =	6.320	Z/BV	.079	
				X/CV		
				.076	.1890	